Rapiscan® systems

An OSI Systems Company

June 1, 2005

Terrence Lew
Contract Officer
United States Customs and Border Protection
Department of Homeland Security
Office of Procurement—NP 1310
1300 Pennsylvania Avenue, NW
Washington, DC. 20229

Dear Mr. Lew:

Rapiscan Systems is pleased to offer our proposal for non-intrusive inspection systems in response to solicitation HSBP1005R0376 "Large Scale Non Intrusive Inspection (NII) Systems." The attached proposal meets all CBP's requirements stated in the initial request for proposals and amendments.

We appreciate the opportunity take part in this competition to provide low and high density cargo non-intrusive inspection technology to another U.S. government customer. With all of our federal customers we strive to provide high quality and innovative technology and consistent performance. We are eager to expand our product offering to CBP beyond the successful Eagle and GaRDS systems.
Rapiscan System maintains the widest breadth and depth of technology offerings of any NII provider in the marketplace. Our comprehensive portfolio enables Rapiscan Systems to provide cost savings on supply and service. Our common software platform eases training requirements on inspectors moving from one type of system to another and makes their demanding job easier.

Therefore, we have proposed a wide range of stand alone and integrated systems that meet all of CBP's stated performance and operational requirements. Rapiscan Systems is part of the OSI Systems, Inc. family and is a mid-sized, publicly traded company with the manufacturing capability and financial health to deliver all the proposed systems in the quantities requested by CBP at a highly competitive prove.

Again, thank you for providing Rapiscan Systems the opportunity to participate in the important procurement process. We look forward to continuing and growing our relationship with CBP.

Sincerely,

(b)(4); (b)(6)

Vice President, Government Affairs

3232 W. El Segundo Blvd. Hawthorne, California 90250 USA
Telephone +1 310-978-1457 Facsimile +1 310-349-2491
www.rapiscansystems.com

Rapiscan systems
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Technical Proposal Category 1. NII Systems for Low Density Cargo Scanning

(b)(4); (b)(7)(E)

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(b)(4); (b)(7)(E)

[redacted]

Design to Meet CBP Specifications

The GaRDS Fixed, Mobile and Pallet system designs meet or exceed all requirements for the Category 1 Low Density Cargo NII equipment.

Table 1. GaRDS Meets Performance Requirements for Low Density Cargo
GaRDS, Fixed, Mobile and Pallet Systems, Configurations 1, 2 and 3

Feature	CBP Required	GaRDS Fixed, Mobile and Pallet
Resolution, inches	[redacted]	[redacted]
Penetration, inches		
Contrast Sensitivity, % as it relates to speed per ASTM guidelines		
Throughput, cargoes/hr		
Image Quality	High efficiency detectors	
Passive Radiation Detection	Built-in capability to passively detect neutron and gamma-ray emissions is desired	
[redacted]		
Narcotics Detection	[redacted]	

Feature	CBP Required	GaRDS Fixed, Mobile and Pallet
Scan Size	Shows the entire target vehicle being scanned in a single screen display	(b) (4)

Table 2. GaRDS Fixed Meets RFP Requirements for Low Density Cargo, Fixed Systems, Configuration 1 – CLIN 00010

Feature	CBP Required	GaRDS Fixed
Operating Area	(b) (7)(E)	(b)(4); (b)(7)(E)
No. Operators		
Operational Environment Temp Range, °F		
Wind Speed, mph		
Radiation Dose, mR/hr above background outside controlled area	0.05 mR/hr	(b) (4)
Power	220 VAC, 1 to 3 phase 80 Amps per phase 60 Hertz, Surge Protector	
Required scanning dimensions or Vehicle Size in feet	(b) (7)(E)	(b)(4); (b)(7)(E)
Operating Hours		
(b) (7)(E)		

Table 3. GaRDS Mobile Meets RFP Requirements for Low Density Cargo, Mobile Systems Configuration 2 – CLIN 00020

Feature	CBP Required	GaRDS Mobile
Operating Area	(b) (7)(E)	(b)(4); (b)(7)(E)
No. Operators		
Temp Range, °F		
Wind Speed, mph		
Travel Configuration	Max height 13'6" Max width 8'6"	(b) (4)
Deployed Configuration	N/A	
Radiation Dose above background, mR/hr	0.05 mR/hr	
Power	220 VAC, 1 to 3 phase 80 Amps per phase 60 Hertz, Surge Protector	

Feature	CBP Required	GaRDS Mobile
		(b) (4)
Operating Hours	(b) (7)(E)	(b)(4); (b)(7)(E)
Target Vehicle Size		
(b) (7)(E)		
Mounting Station for Panasonic notebook	Mounting station, easy access, Key lockable 110-240VAC power supply	(b) (4)

Table 4. GaRDS Mobile Meets RFP Requirements for Low Density Cargo, Pallet Systems Configuration 3 – CLIN 00030

Feature	CBP Required	GaRDS Pallet
Operating Area	(b) (7)(E)	(b)(4); (b)(7)(E)
No. Operators		
Temp Range, °F, High humidity and dust		
Radiation Dose above background, mR/hr	0.05 mR/hr	(b) (4)
Power	220 VAC, 1 to 3 phase 80 Amps per phase 60 Hertz, Surge Protector	
Maximum Pallet Size	(b) (7)(E)	(b)(4); (b)(7)(E)
Maximum Pallet Weight		
Operating Hours		
(b) (7)(E)		

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Technical Proposal Category 2. NII Systems for High Density Cargo Scanning

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

Table 1. Configuration 5 – Fixed System for High Density Cargoes

Feature	Requirement	Eagle MSCS, Eagle Gantry, Eagle Portal, and Eagle Fixed
Source	Gamma- or x-ray	(b) (4)
Resolution	(b) (7)(E)	(b)(4); (b)(7)(E)
Penetration		
Contrast Sensitivity		
Throughput, Cargoes/hr		
Scan Size	Show entire vehicle in single image	(b) (4)
Operating Area	(b) (7)(E)	(b)(4); (b)(7)(E)
Wind Speed, mph		
Power	220 VAC, 1 - 3 phase 80 Amps, 60 Hz Surge Protector	(b) (4)

Table 2. Configuration 6 – Mobile System for High Density Cargoes

Feature	Requirement	Eagle Mobile
Platform	Mobile platform or truck	(b) (4)
Travel Configuration	Height 13 ft. 6 in. Width 8 ft. 6 in.	
Source	Gamma- or x-ray	
Resolution, in.	(b) (7)(E)	(b)(4); (b)(7)(E)
Penetration, in.		
Contrast Sensitivity		
Throughput, Cargoes/hr		
Scan Size	Show entire vehicle in single image	(b) (4)
Operating Area	(b) (7)(E)	(b)(4); (b)(7)(E)
Temp Range, °F		

Power	220 VAC 1 to 3 phase, 80 Amps per phase, 60 Hz with Surge Protector	(b) (4)
Maximum Target Vehicle size	(b) (7)(E)	(b)(4); (b)(7)(E)
Mounting Station for Panasonic Toughbook	Mounting Station, Easy Installation access, Key lockable, Power 100-240 V, 50/60 Hz	(b) (4)

Table 3. Configuration 7 – Pallet System for High Density Cargoes

Feature	Requirement	Eagle Pallet
Source	Gamma- or x-ray	(b) (4)
Resolution, in	(b) (7)(E)	(b)(4); (b)(7)(E)
Penetration, in		
Contrast Sensitivity		
Throughput, Cargoes/hr		
Scan Size	Show entire pallet in single image	(b) (4)
Operating Area	(b) (7)(E)	(b)(4); (b)(7)(E)
Temp Range, °F		
Wind Speed, mph		
Power	220 VAC 1 to 3 phase 80 Amps per phase 60 Hz Surge Protector	(b) (4)

Table 4. RFP Requirements for Configuration 8 – Rail System for High Density Cargoes

Feature	Requirement	Eagle Rail
Source	Gamma- or x-ray	(b) (4)
Resolution, in	(b) (7)(E)	(b)(4); (b)(7)(E)
Penetration, in		
Contrast Sensitivity		
Vehicle Size		
Operating Area		
Scan Speed		
Temp Range, °F		
Wind Speed, mph		
Power	220 VAC, 1 - 3 phase 80 Amps, 60 Hz Surge Protector	(b) (4)

Table 5. Shared RFP Requirements for Configurations 5 - 8

Feature	Requirement	Common Eagle Features
Image Quality	High efficiency detector array	(b) (4)
		(b)(4); (b)(7)(E)
Narcotics Detection		(b) (7)(E)
Radiation Detection	Detection of neutron and gamma-ray emissions is desired	(b) (4)
Radiation Dose, mR/hr	0.05	
No. Operators		(b) (7)(E) (b)(4); (b)(7)(E)
Command Control Center	Fixed, Pallet, and Rail systems shall have a command center. Workstation/operating equipment for the mobile systems shall be housed in mobile unit.	(b) (4)
Safety Interlocks	Operator controlled safety interlocks	
Operating Hours		(b) (7)(E) (b)(4); (b)(7)(E)
Temp Range, °F		

Rapiscan® systems

An OSI Systems Company

Product Test Results:

Rapiscan Eagle® and GaRDS® Systems

HSBP1005R0376

1530 Wilson Blvd. Suite 170 Arlington, Virginia 22209-2413 USA
Telephone +1 703-812-0322 Facsimile +1 703-812-0335
www.rapiscansystems.com

Low & High Density Cargo Product Test Results

Section L.2.1 of HSBP1005R0376, Amended Attachment 4 states:

> **L. 2.1. Product Test Results.** The offeror shall provide with its technical proposal, and certify by corporate officers signature, the results of their own testing on its proposed NII imaging system. The testing shall be in accordance with the ASTM standards and include such measures of image quality as resolution, contrast sensitivity, penetration, throughput rate, the dose to cargo in the center of a targeted conveyance being examined and a radiation survey of the system. Image quality is a combination of the resolution, contrast sensitivity and penetration capability as well as the software and hardware analyzing the images. The test results should clearly indicate the conditions under which the results were obtained. For example, the scan rate and the position, type and thickness of stopping material should be specified for the reported penetration (in inches of steel). The contractor shall be prepared to demonstrate a portion of this test as part of their system demonstration.

Rapiscan Systems, Inc. hereby certifies that the attached product test results accurately reflect the performance of our offered products.

By: (b)(4); (b)(6)

Name: [redacted]

Title: President

Date: May 31, 2005

Product Test Results – Eagle

Rapiscan and CBP have performed comprehensive testing to measure the performance of the Eagle[1].

- Penetration
- Spatial Resolution
- Contrast Sensitivity
- Radiation
- Scan Rate

The performance of the proposed system is based on these test results.

(b)(4); (b)(7)(E)

[1] These test results are applicable to the Eagle MSCS, Eagle Gantry and Eagle Portal.

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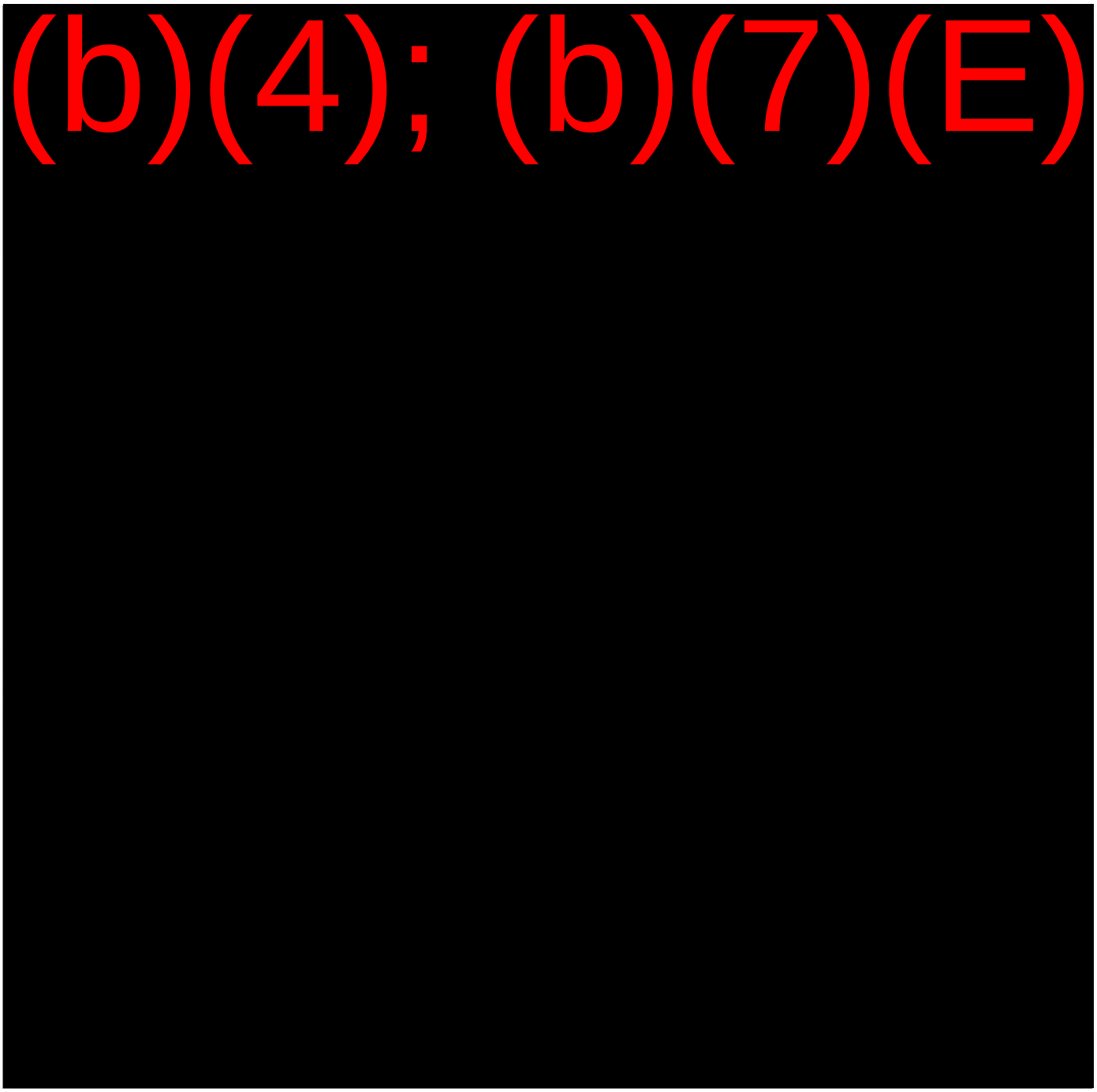
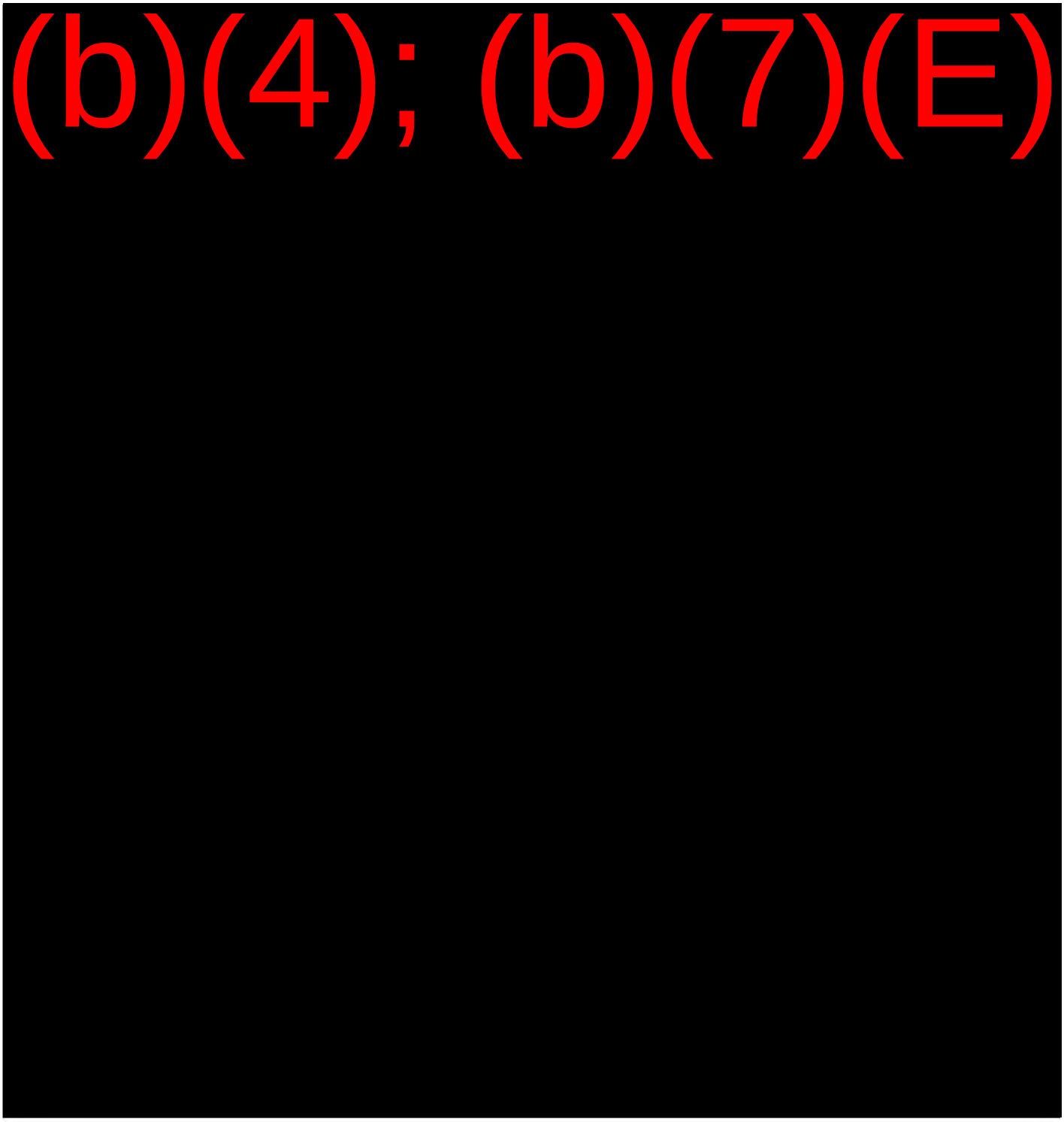
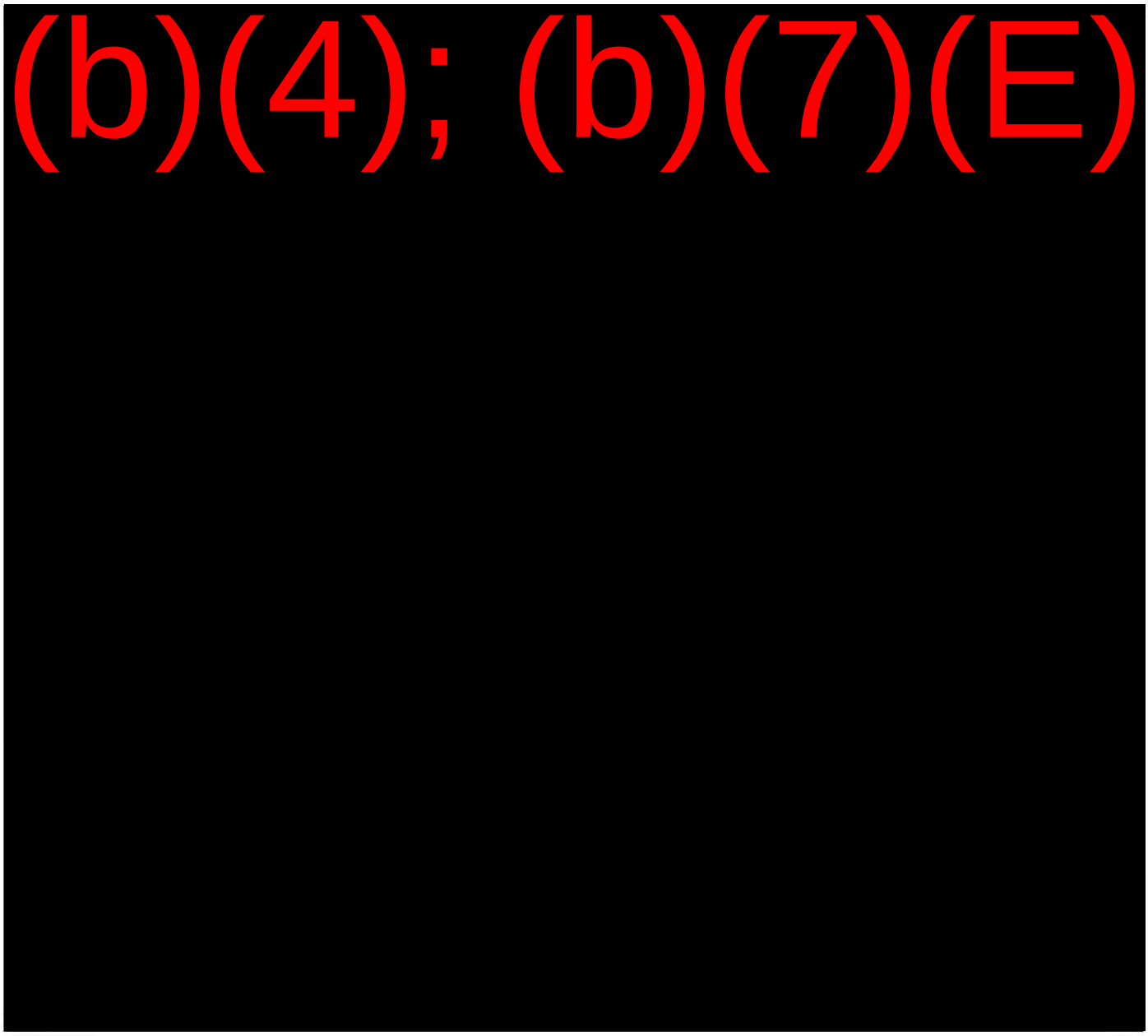
(b)(4); (b)(7)(E)

Product Test Results – Eagle Mobile

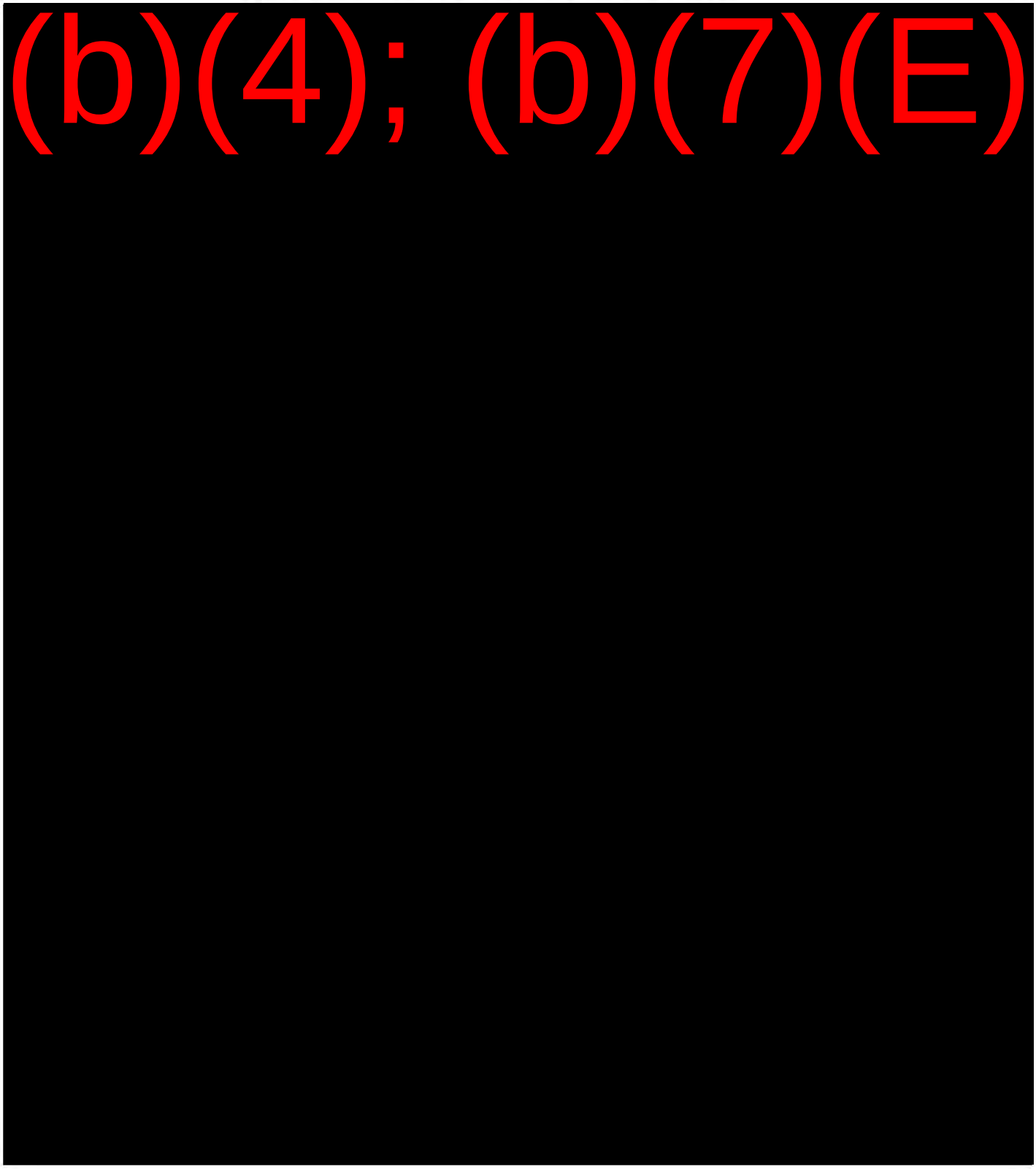

(b)(4); (b)(7)(E)

Product Test Results – EAGLE Pallet

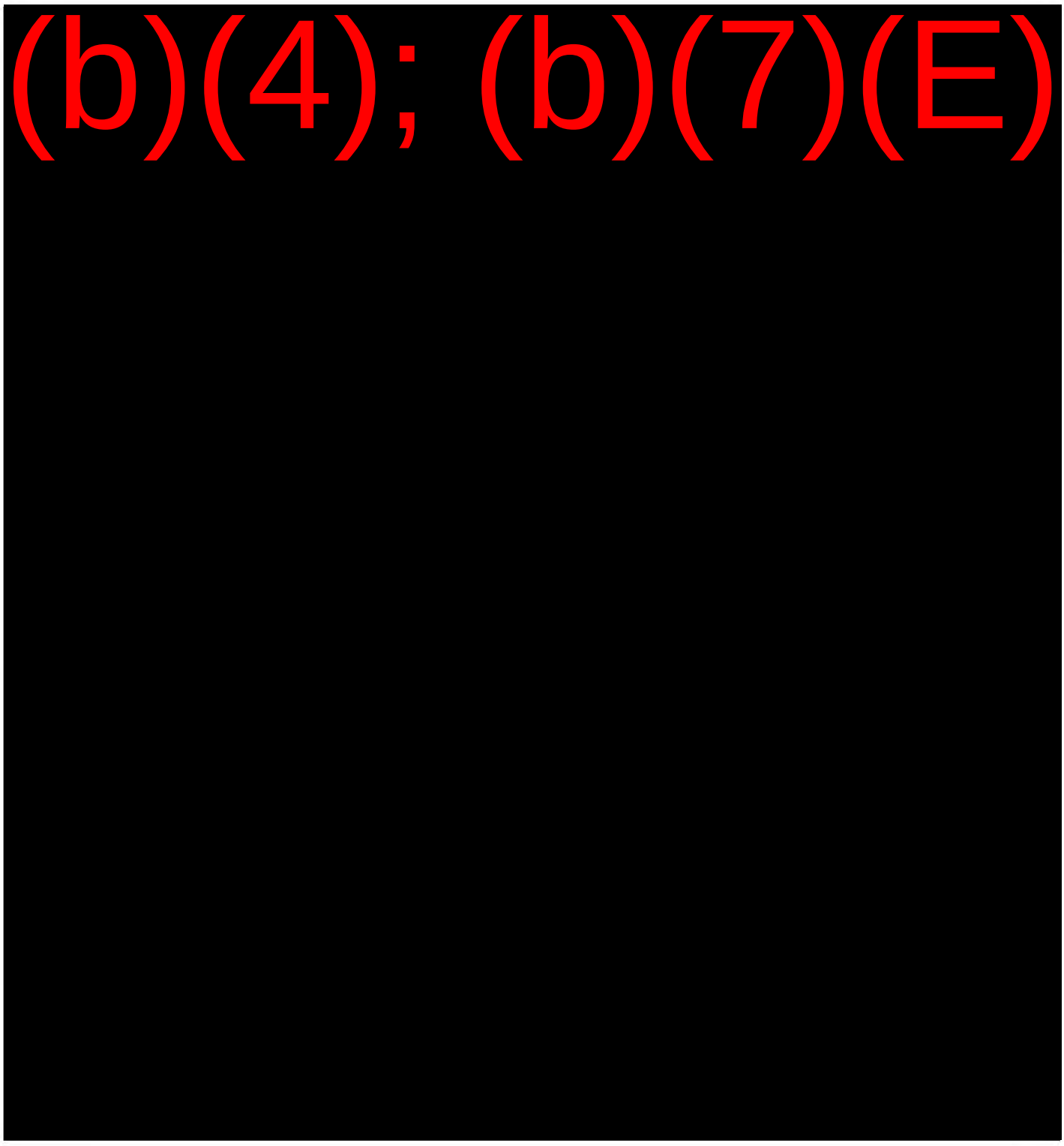



(b)(4); (b)(7)(E)

Product Test Results - GaRDS Series



Side View of Test Piece Platform


(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

(b)(4); (b)(7)(E)

PROJECT SUMMARIES

PROJECT SUMMARY I--DEVELOPMENT, DELIVERY AND SUPPORT OF GAMMA RADIOGRAPHIC DETECTION SYSTEMS (GARDS) IN MOBILE, PORTAL AND GANTRY CONFIGURATIONS

(b)(4); (b)(7)(E)

(b)(4); (b)(6); (b)(7)(E)

(b)(4); (b)(7)(E)

PROJECT SUMMARY

PROJECT SUMMARY II--DEVELOPMENT, DELIVERY AND SUPPORT OF AN EAGLE PALLET COMBINED TECHNOLOGY AIR CARGO AND PALLET INSPECTION SYSTEM

(b)(4); (b)(7)(E)

(b)(4); (b)(6); (b)(7)(E)

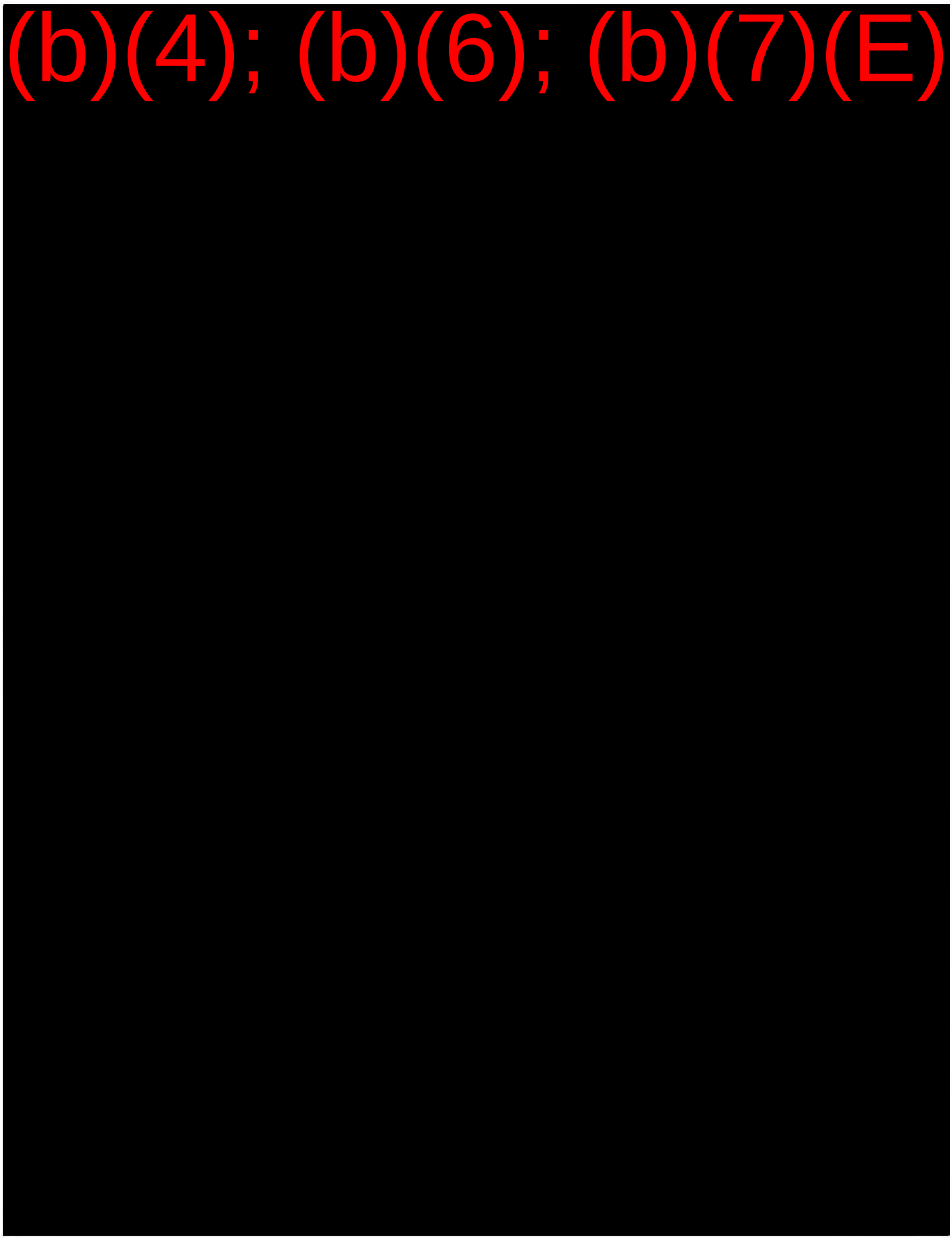
(b)(4); (b)(7)(E)

PROJECT SUMMARY

PROJECT SUMMARY III-DEVELOPMENT, DELIVERY AND SUPPORT OF TWO MOBILE SEA CONTAINER SYSTEMS UNDER CBP CONTRACT HSBP1004J04641 FOR THE "PRODUCTION OF MOBILE SEA CONTAINER SYSTEMS"

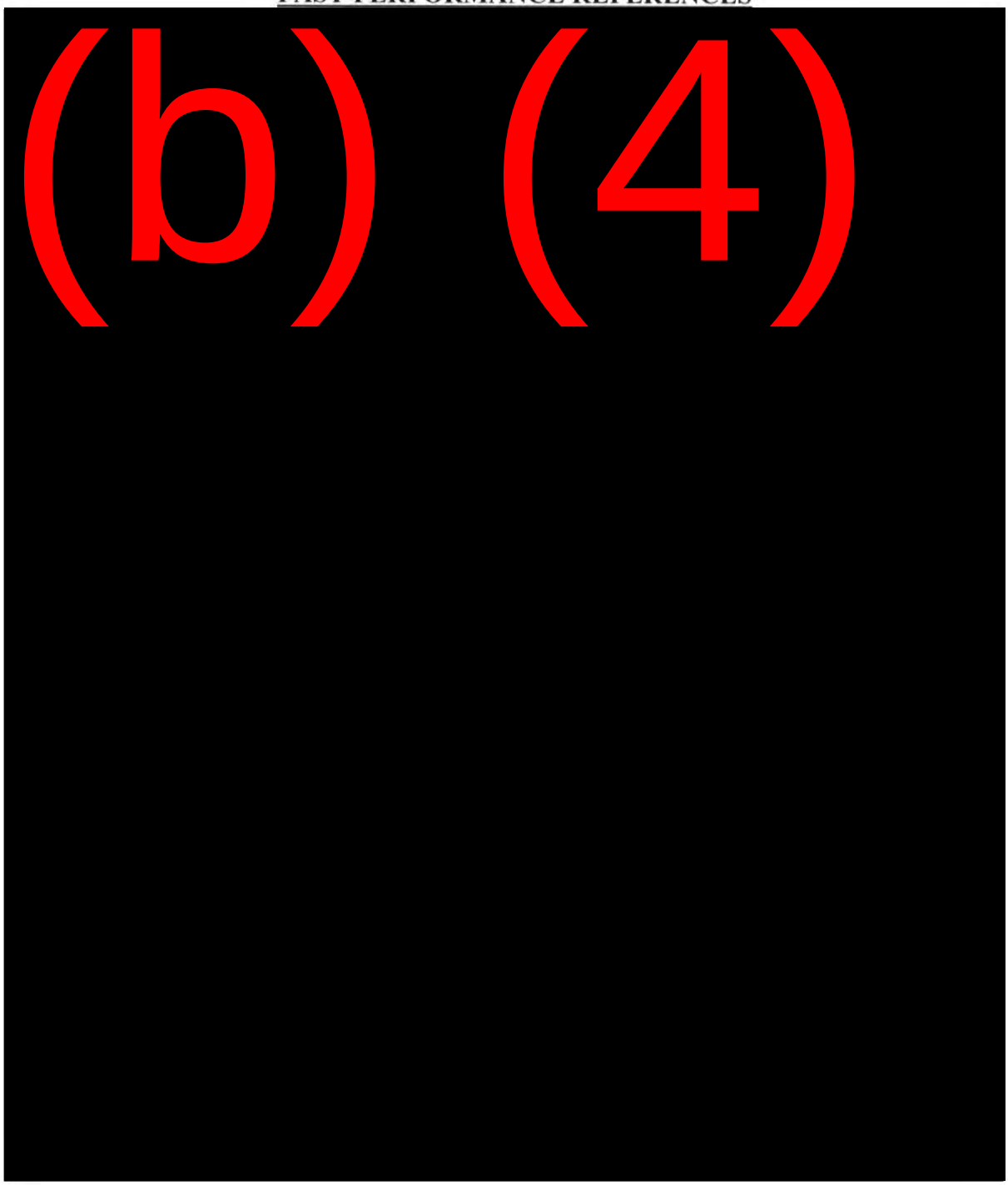
(b)(4); (b)(7)(E)

(b)(4); (b)(6); (b)(7)(E)

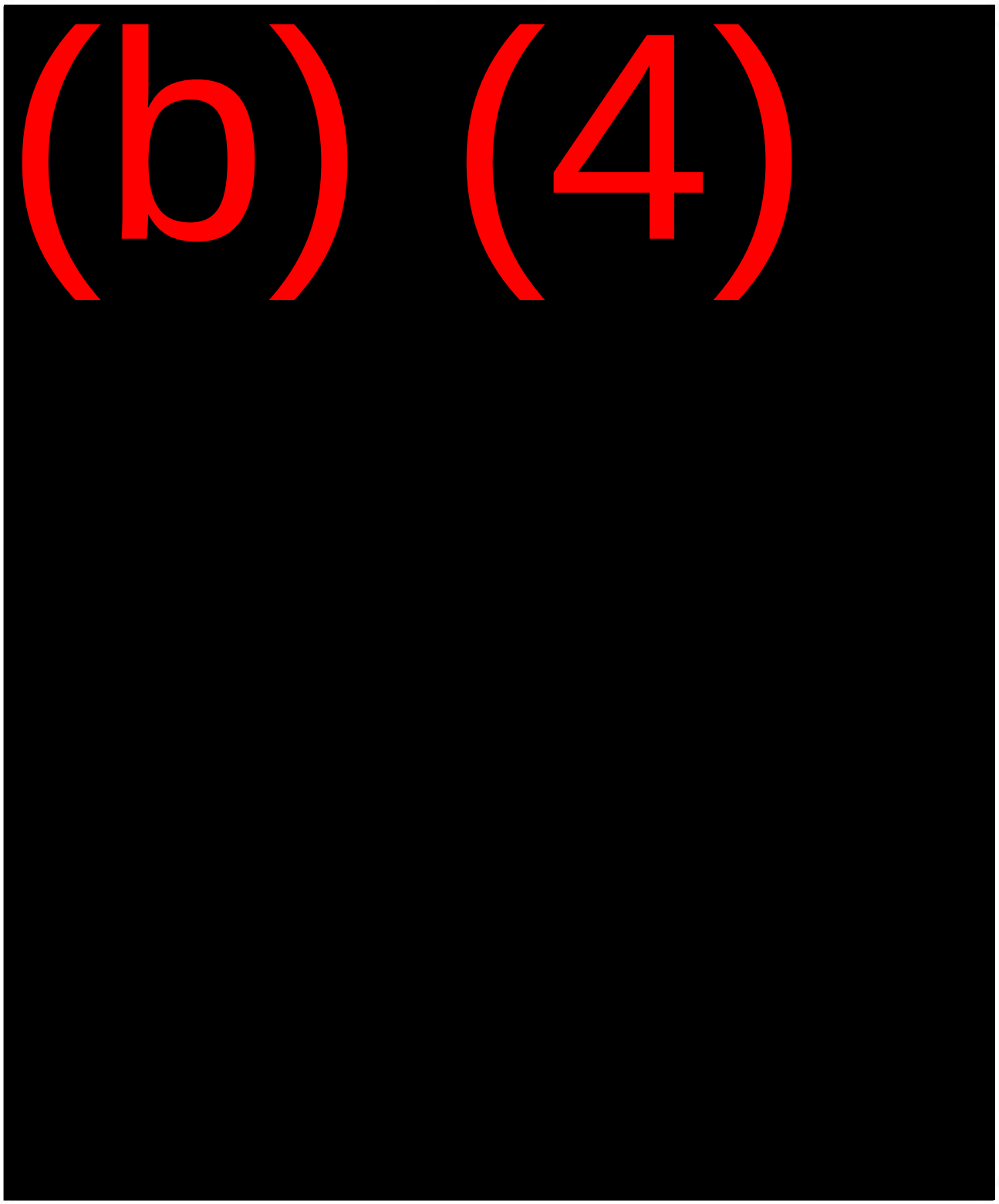


(b)(4); (b)(7)(E)

PAST PERFORMANCE REFERENCES



PAST PERFORMANCE INFORMATION
(continued)



PAST PERFORMANCE INFORMATION
(continued)

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)
Name: (b) (6) (Main Reference)
Address: Dept. of Homeland Security
Customs and Border Protection
Office of Procurement - NP 1310
1300 Pennsylvania Ave. NW
Washington, DC 20229
Tel.#: (b) (6)
Email Address: (b) (6)

CONTRACTING OFFICER
Name: (b) (6)
Address: Dept. of Homeland Security
Customs and Border Protection
Office of Procurement - NP 1310
1300 Pennsylvania Ave. NW
Washington, DC 20229
Tel.#: (b) (6)
Email Address: (b) (6)

PAST PERFORMANCE REFERENCES

PRIME OFFEROR NAME

Rapiscan Systems

COMPANY TO BE EVALUATED

Rapiscan Systems

(Prime or Subcontractor/Manufacturer Team Member)

CONTRACT NUMBER

HSTS 04-05-D-DEP982

CONTRACTOR:

NAME: Rapiscan Systems

ADDRESS:_

Rapiscan Systems
3232 El Segundo Ave
Hawthorne, CA 90250

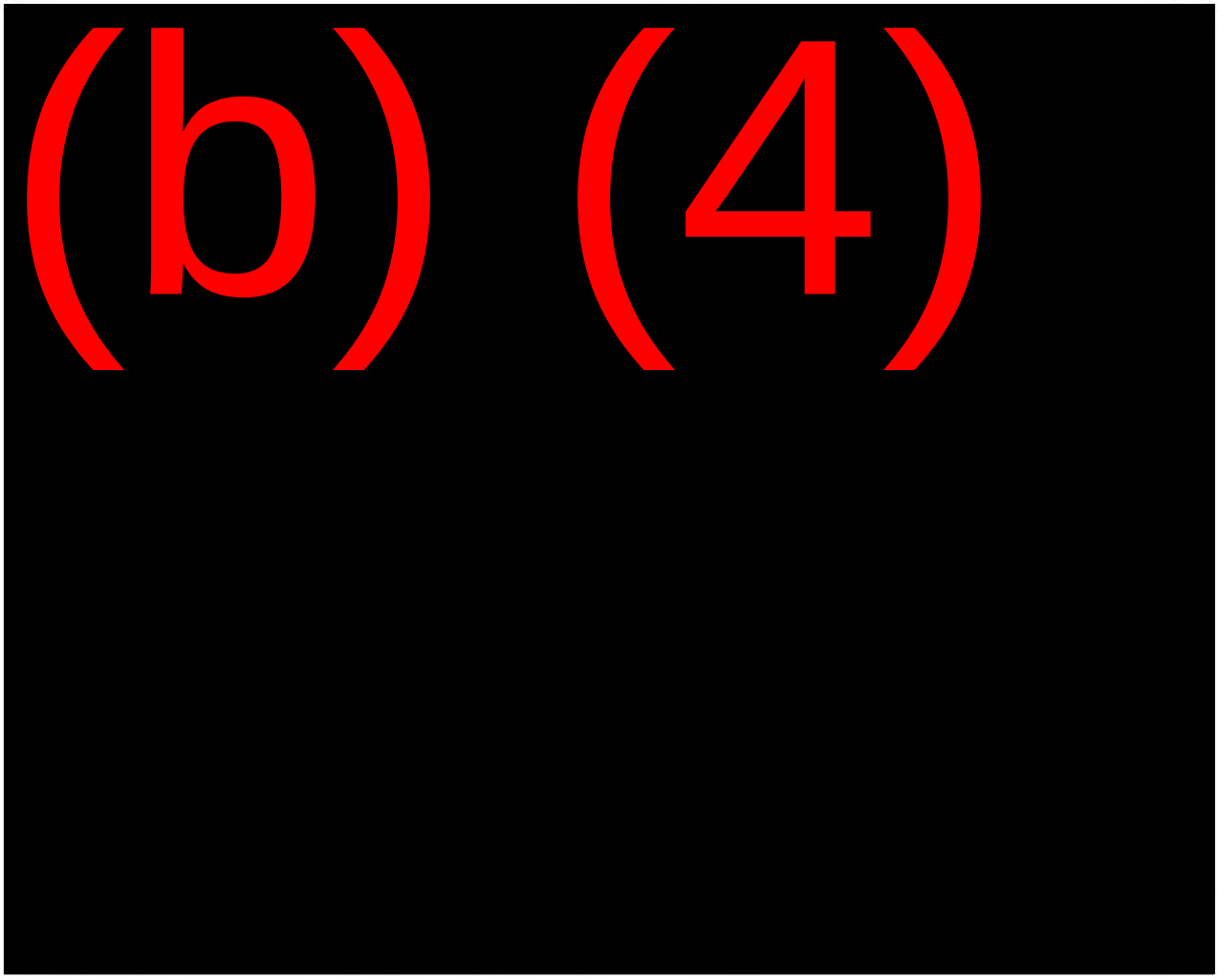
TYPE OF CONTRACT

_____ Fixed Price
_____ Cost Reimbursement
_____ Requirements
___x__ Indefinite Quantity/Indefinite Delivery
_____ Labor Hour
_____ Time and Materials
_____ Other

METHOD OF PROCUREMENT _____Sealed Bid __x___ Negotiated

Was the contract awarded on a sole source requirement? _____ Yes __x___ No

PAST PERFORMANCE INFORMATION
(continued)



TYPE AND EXTENT OF SUBCONTRACTING

PAST PERFORMANCE INFORMATION
(continued)

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)
Name: (b) (6)
Address: 701 South 12 Street
Arlington, VA 22202
Tel.#: (b) (6)
Fax #: 571-227-1933
Email Address: (b) (6)

CONTRACTING OFFICER
Name: (b) (6)
Address: 701 South 12 Street
Arlington, VA 22202
Tel.#: (b) (6)
Email Address: (b) (6)

PAST PERFORMANCE REFERENCES

PRIME OFFEROR NAME

Rapiscan Systems

COMPANY TO BE EVALUATED

Rapiscan Systems

(Prime or Subcontractor/Manufacturer Team Member)

CONTRACT NUMBER

31421

CONTRACTOR:

NAME: Rapiscan Systems

ADDRESS:_

Rapiscan Systems
3232 El Segundo Ave
Hawthorne, CA 90250

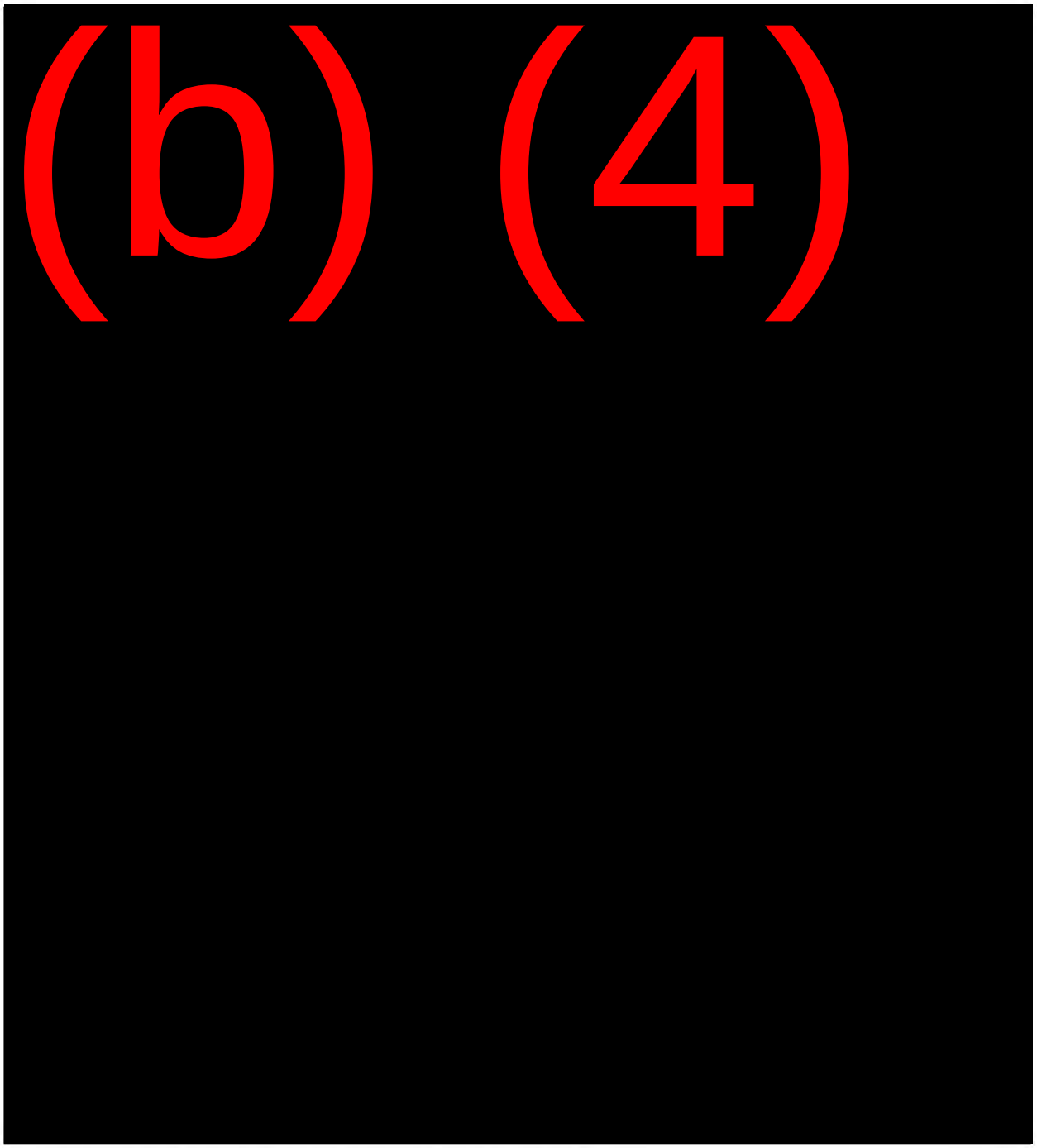
TYPE OF CONTRACT

__x___ Fixed Price
_____ Cost Reimbursement
_____ Requirements
_____ Indefinite Quantity/Indefinite Delivery
_____ Labor Hour
_____ Time and Materials
_____ Other

METHOD OF PROCUREMENT _____Sealed Bid __x___ Negotiated

Was the contract awarded on a sole source requirement? _____ Yes __x___ No

PAST PERFORMANCE INFORMATION
(continued)



TYPE AND EXTENT OF SUBCONTRACTING

PAST PERFORMANCE INFORMATION
(continued)

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

Name:
1. (b) (6) Procurement Project Manager
2. (b) (6) Chief of Nuclear Unit of Romanian Customs
(responsible for the operation of the 3 units)

Address:

Romanian National Authority of Customs
13 Matei Millo St., Sector 1
Bucharest - Romania

Tel.#: + (b) (6)
Fax #: + 401 312 2778
Email Address (b) (6)

PAST PERFORMANCE REFERENCES

PRIME OFFEROR NAME

Rapiscan Systems

COMPANY TO BE EVALUATED

Rapiscan Systems

CONTRACT NUMBER

F42610-92-C-0108	$13.8M
F42610-96-C-0034	$100k
F42610-96-P-2993	$25k
F42610-97-M-0717	$30k
F42610-97-P-0696	$25k
F42610-97-M-0755	$25k
F42610-97-P-4736	$25k
F42610-98-M-0051	$30k
F42610-99-P-1050	$25k
F42610-00-C-0051	$395k
F42610-00-M-0207	$25k
FA8201-04-C-0025	$95k
FA8201-04-P-0678	$95k

CONTRACTOR:

NAME: Rapiscan Systems

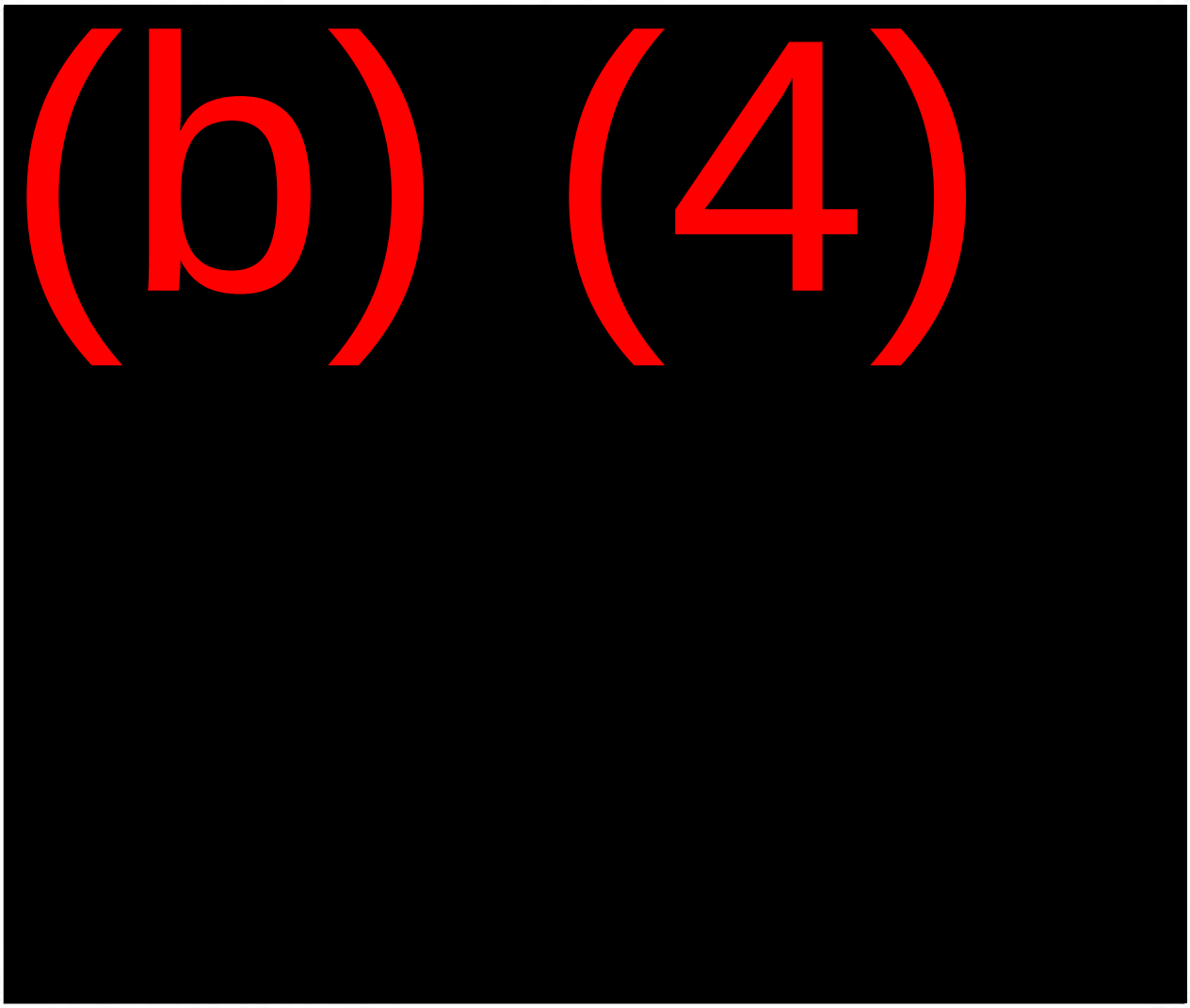
ADDRESS:
352 E. Java Drive
Sunnyvale, California 94089

TYPE OF CONTRACT

___x__ Fixed Price
_____ Cost Reimbursement
_____ Requirements
_____ Indefinite Quantity/Indefinite Delivery
_____ Labor Hour
_____ Time and Materials
_____ Other

METHOD OF PROCUREMENT _____Sealed Bid __x___ Negotiated

Was the contract awarded on a sole source requirement? __x__ Yes _____ No
Subsequent service contracts were sole source



LOCATION OF WORK

Rapiscan Systems (formerly ARACOR), Sunnyvale, CA

CONTRACT PERIOD OF PERFORMANCE (including extension options)

1992 through 2005 (continuing)

CONTRACT AMOUNT (including options)

Contracts for related work totaling $14,720,000 have been awarded to date.

CONTRACT STATUS __x__ Active _____ Complete

TYPE AND EXTENT OF SUBCONTRACTING

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

CO: (b) (6)
OO-ALC/LMPS
5973 Atlas Lane, Building 984
Hill AFB, UT 84056
Phone:
Email: (b) (6)

COO: (b) (6)
6038 Aspen Avenue, B1289NE
Hill AFB, UT 84056
Phone: (b) (6)
FAX: 801-777-0632
Email: (b) (6)

Data Item Description A001

Project Management Plan

The Rapiscan Project Management Plan is provided below, as required by DID A001 of HSBP1005R0376.

1.1 Project Management Plan

(b) (4)

1.2 Controls and Procedures

(b) (4)

(b) (4)

1.3 Program Tracking

(b) (4)

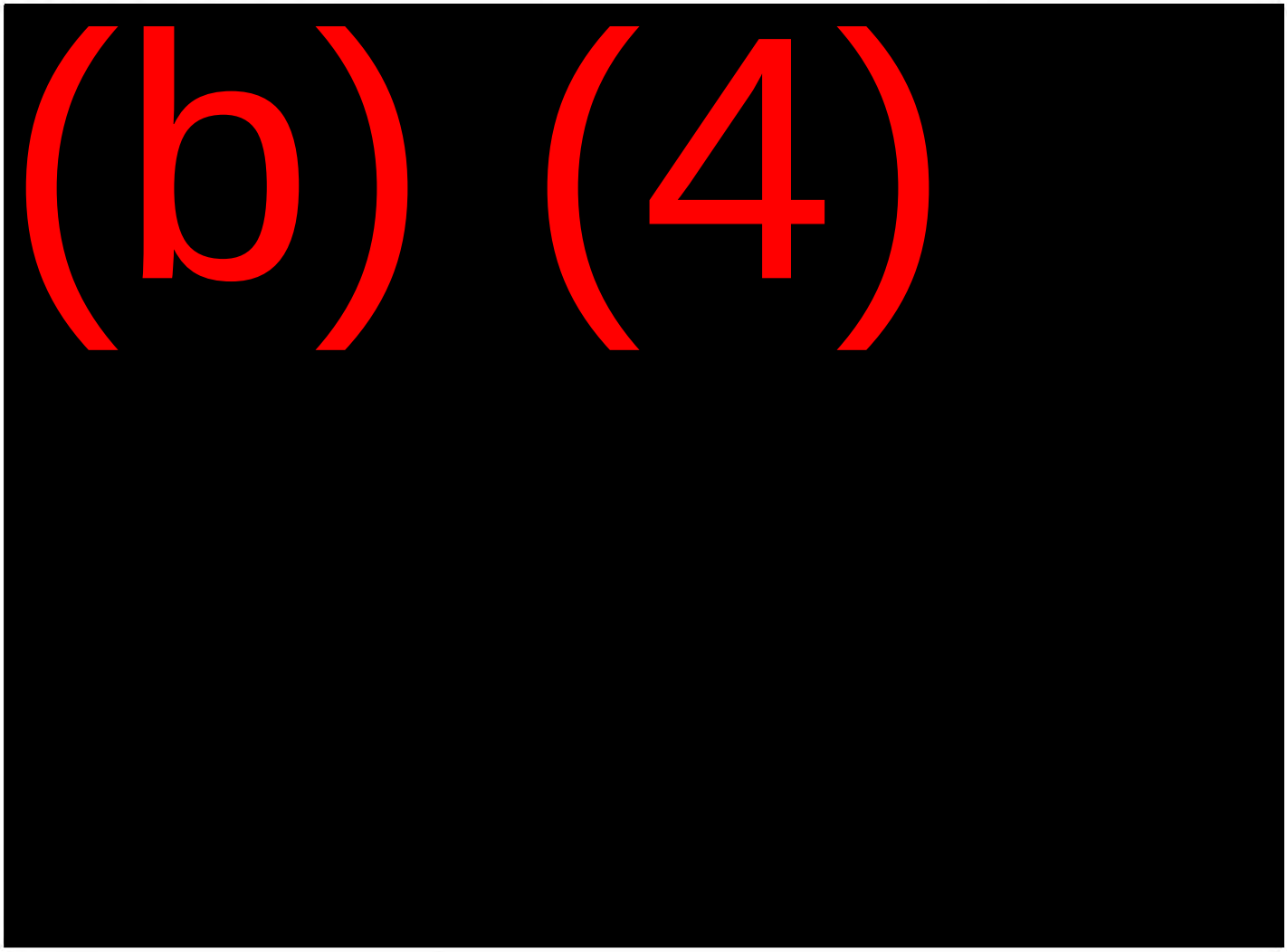
(b) (4)

1.4 Purchase Order Control

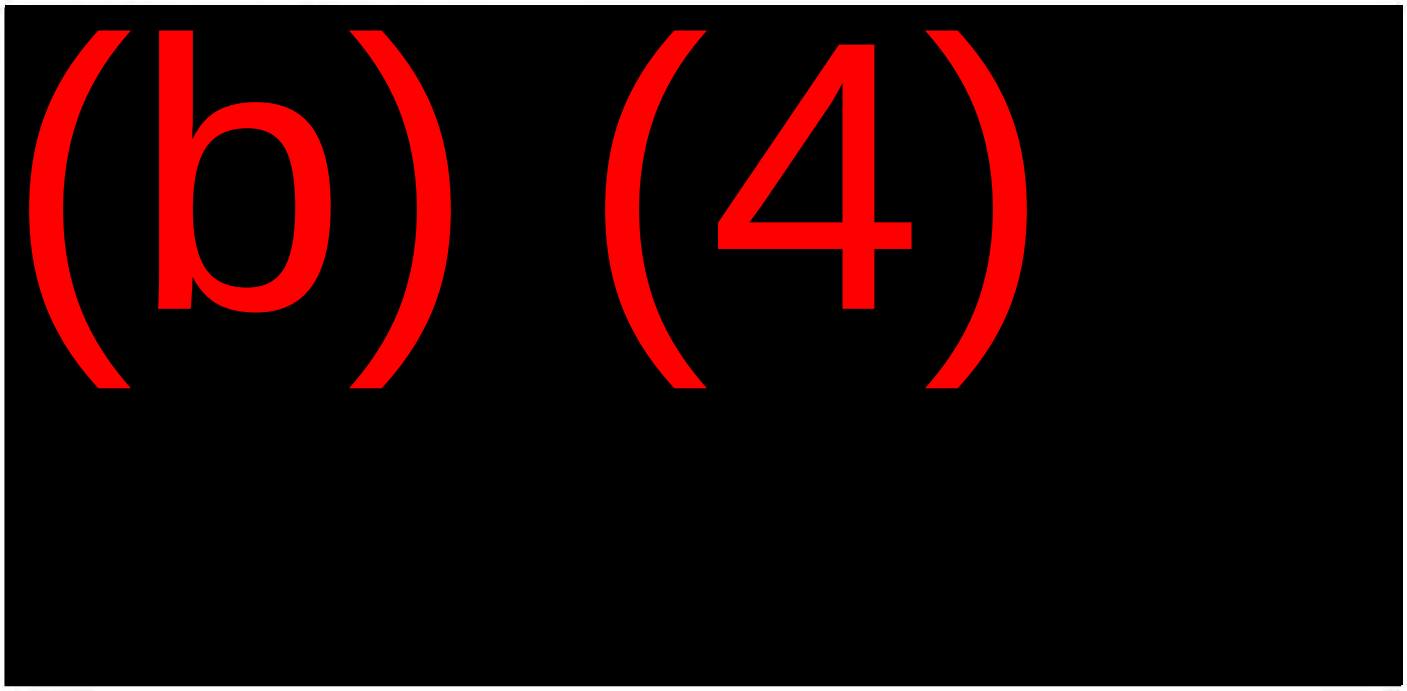
(b) (4)

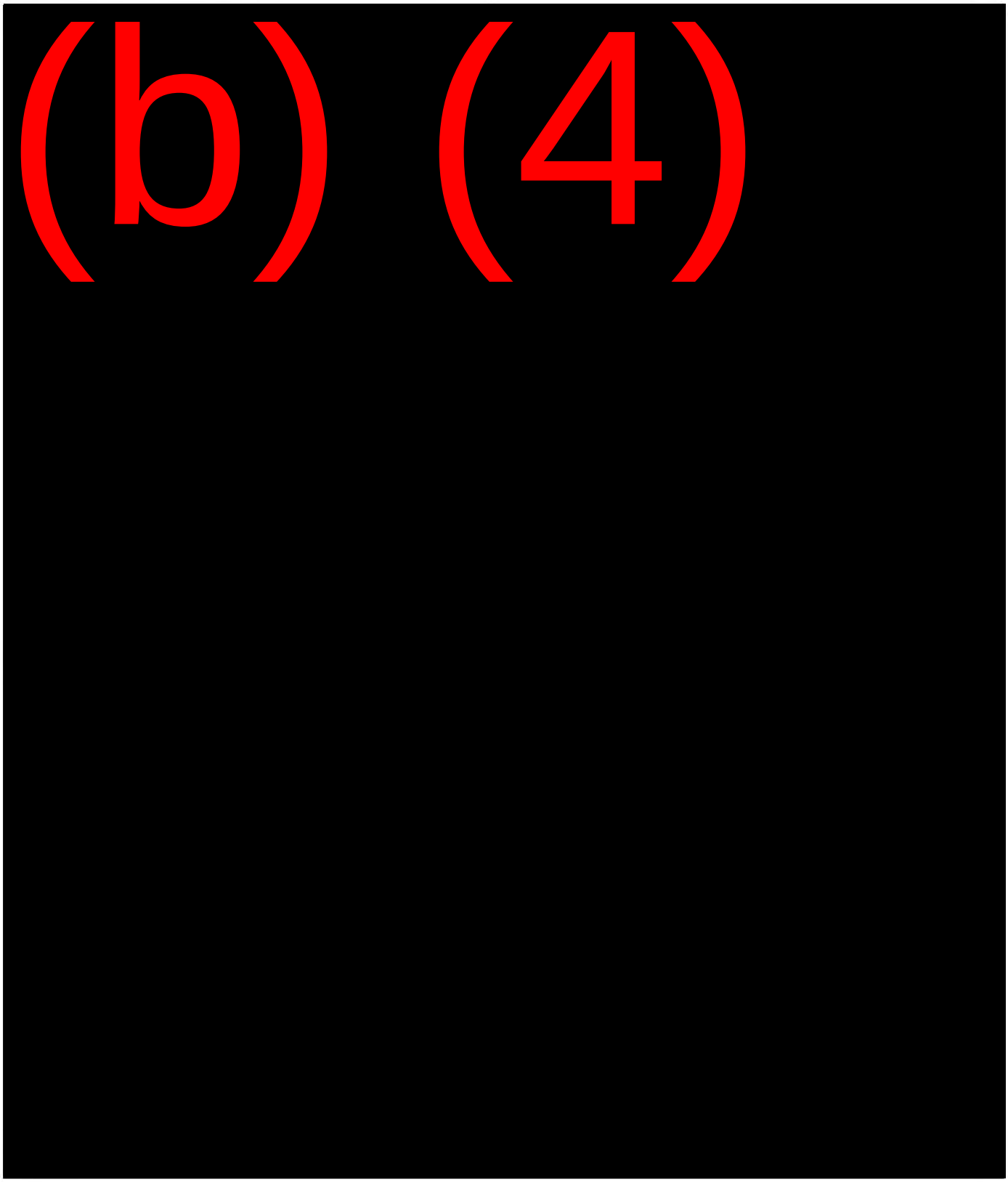
1.5 Receiving Procedures

(b) (4)



1.6 Supplier Management

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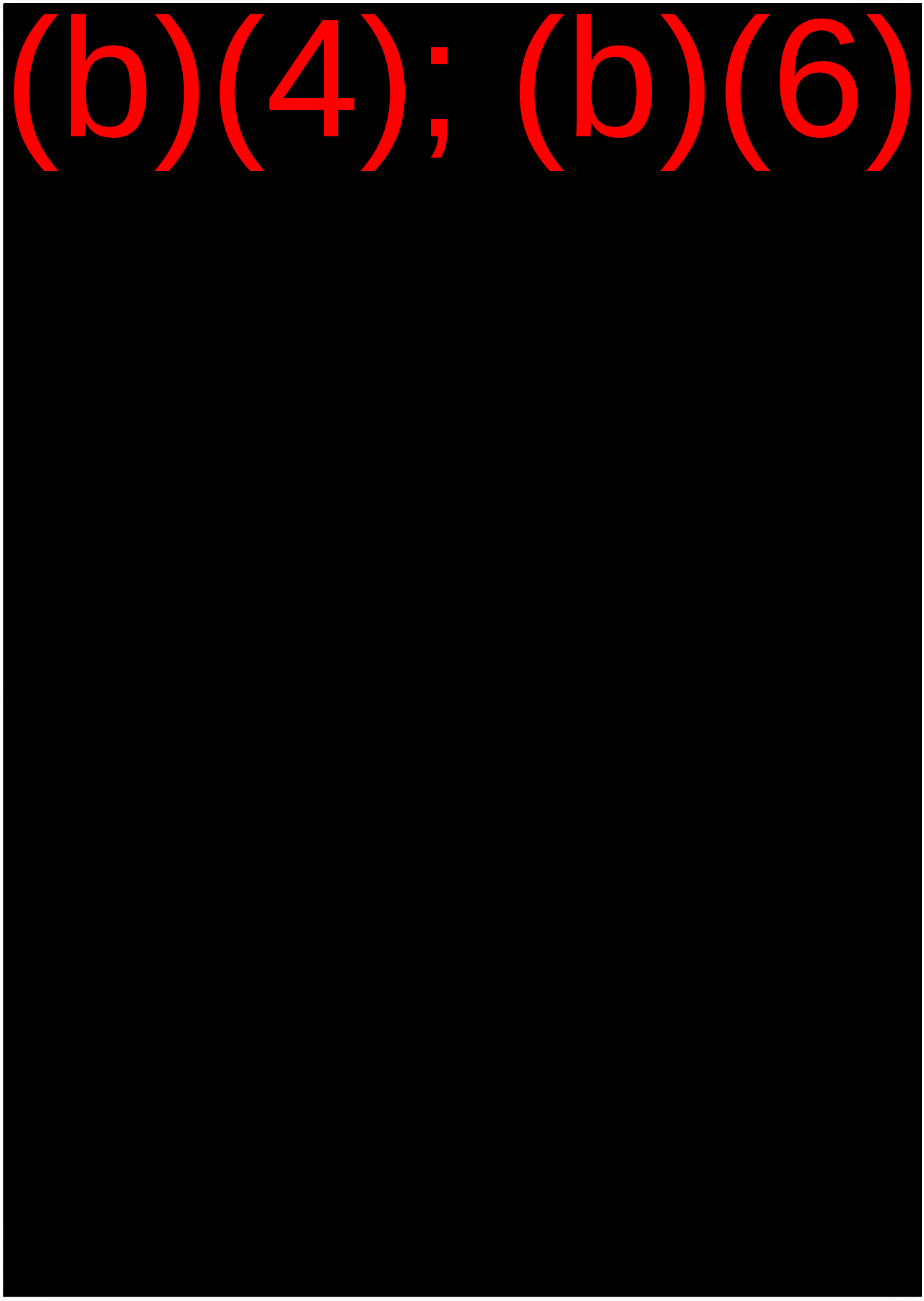
(b) (4)

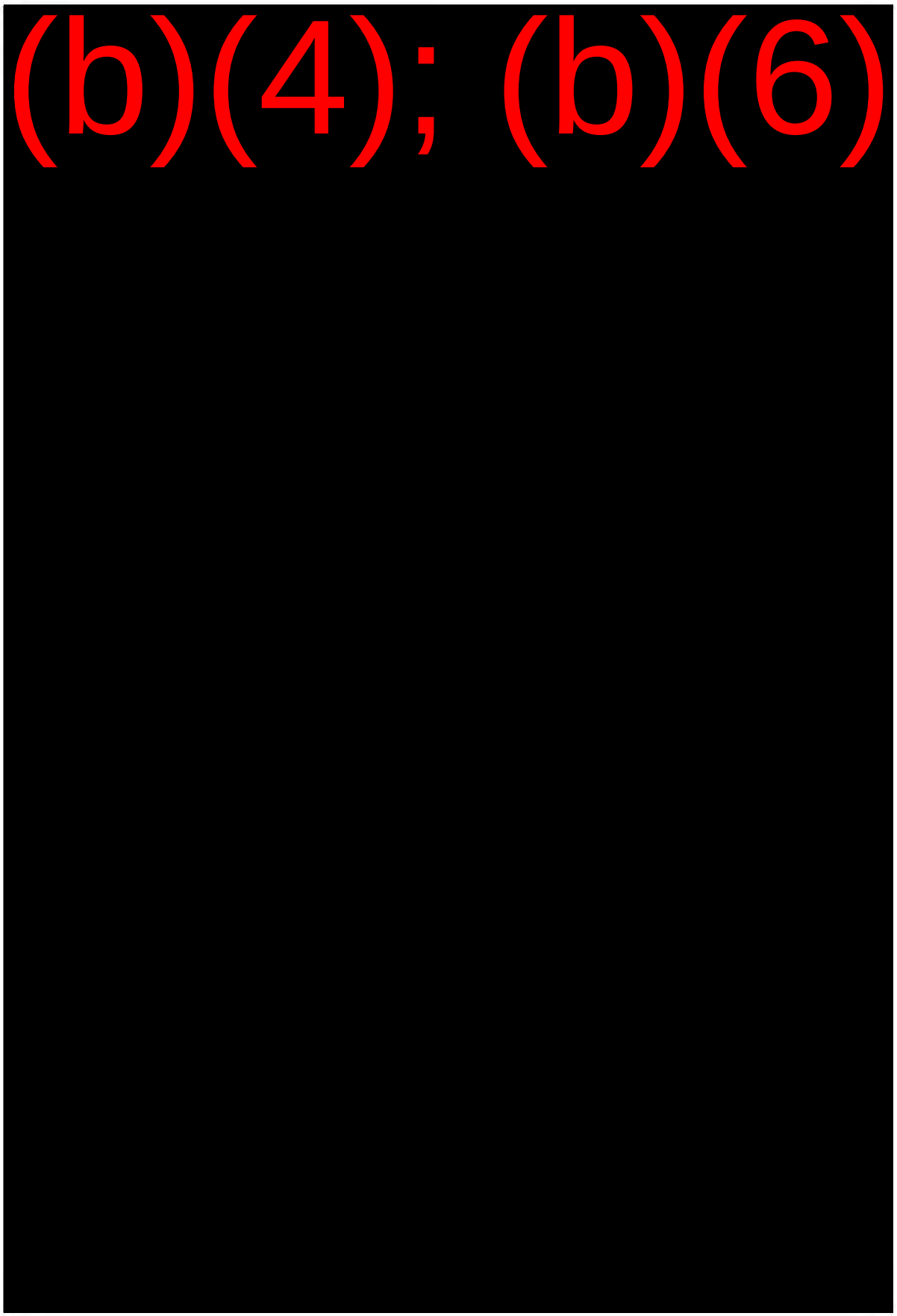
1.7 Quality Assurance

(b) (4)

1.8 Program Organization Chart

(b) (4)


(b)(4); (b)(6)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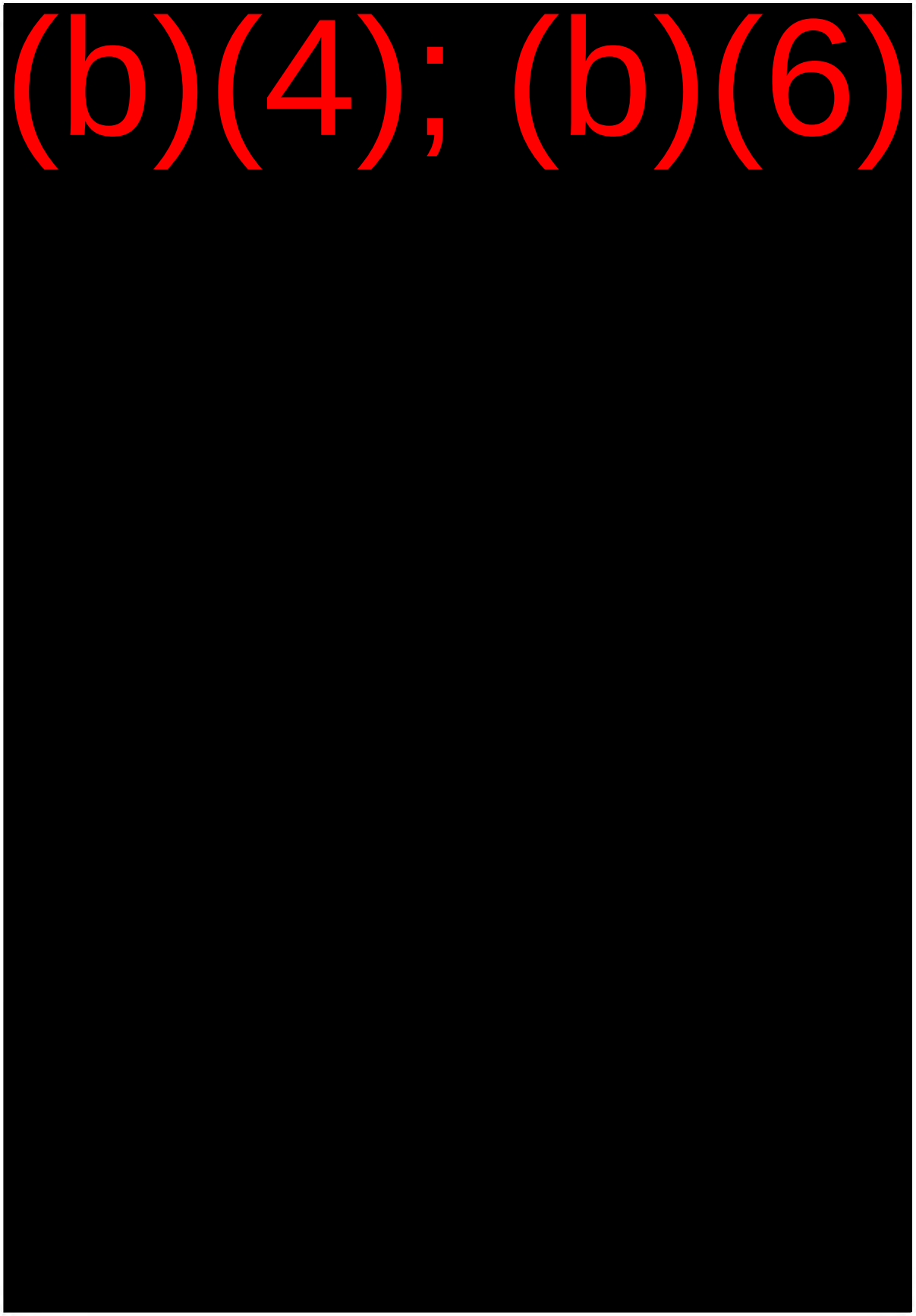
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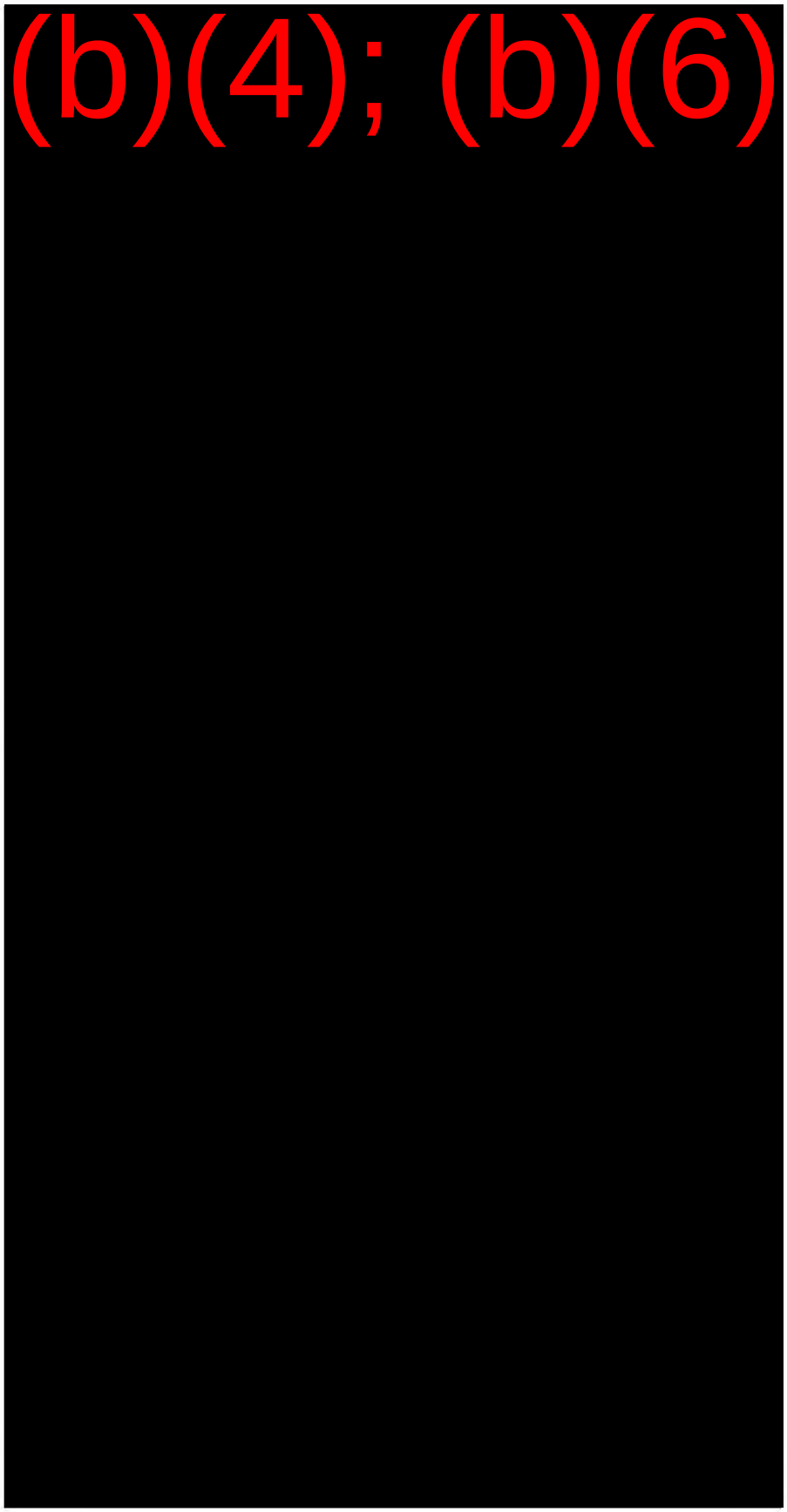
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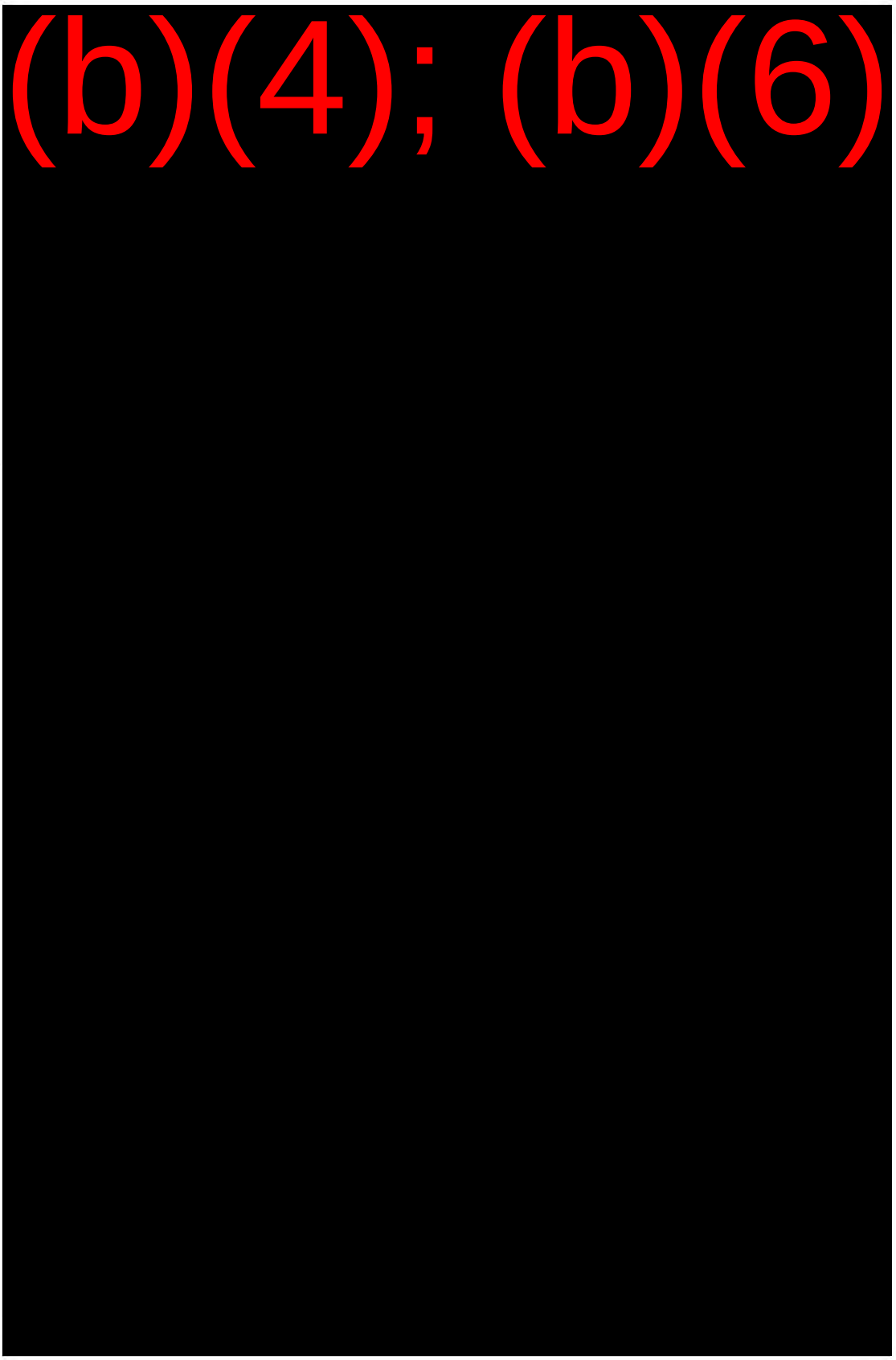
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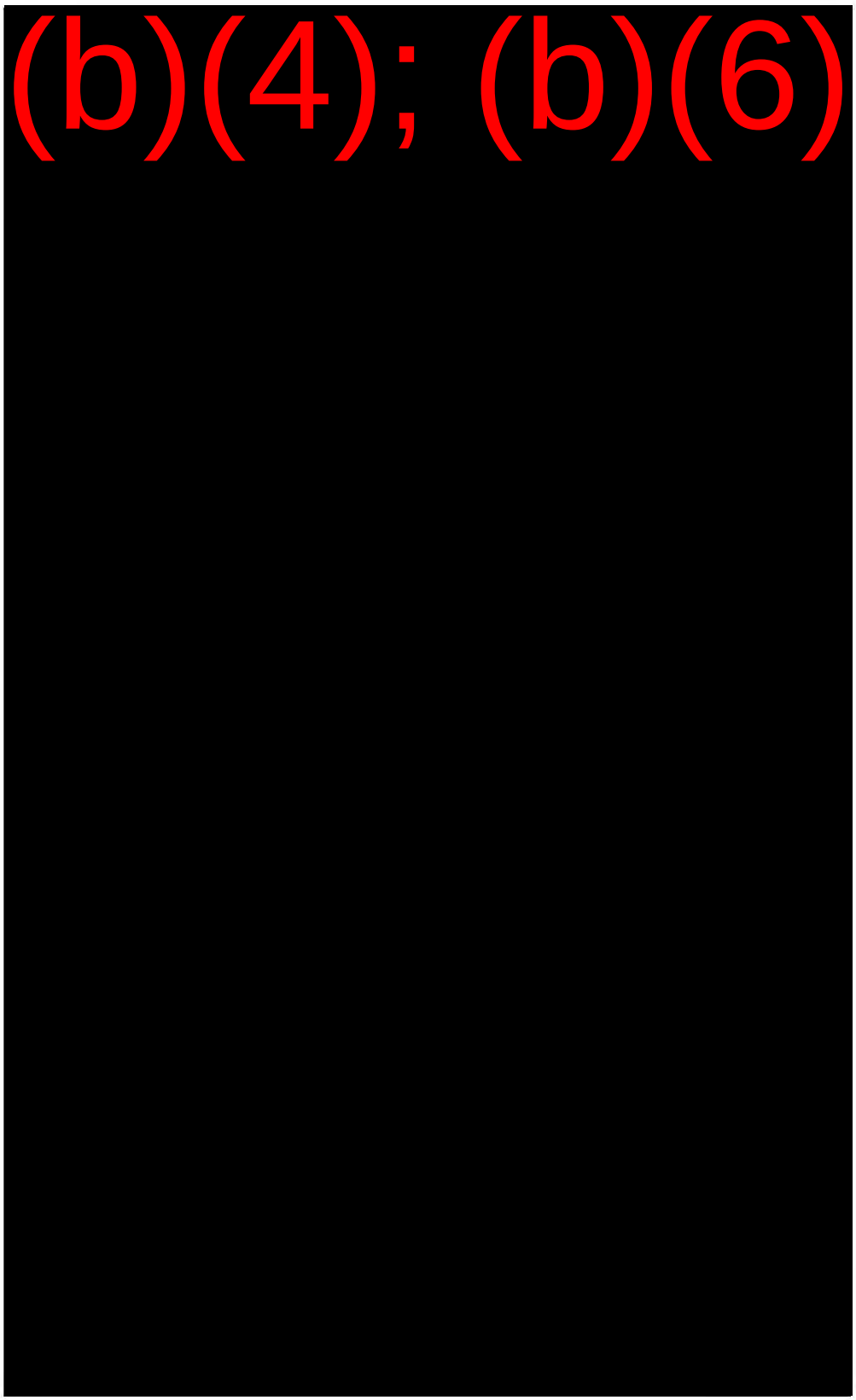
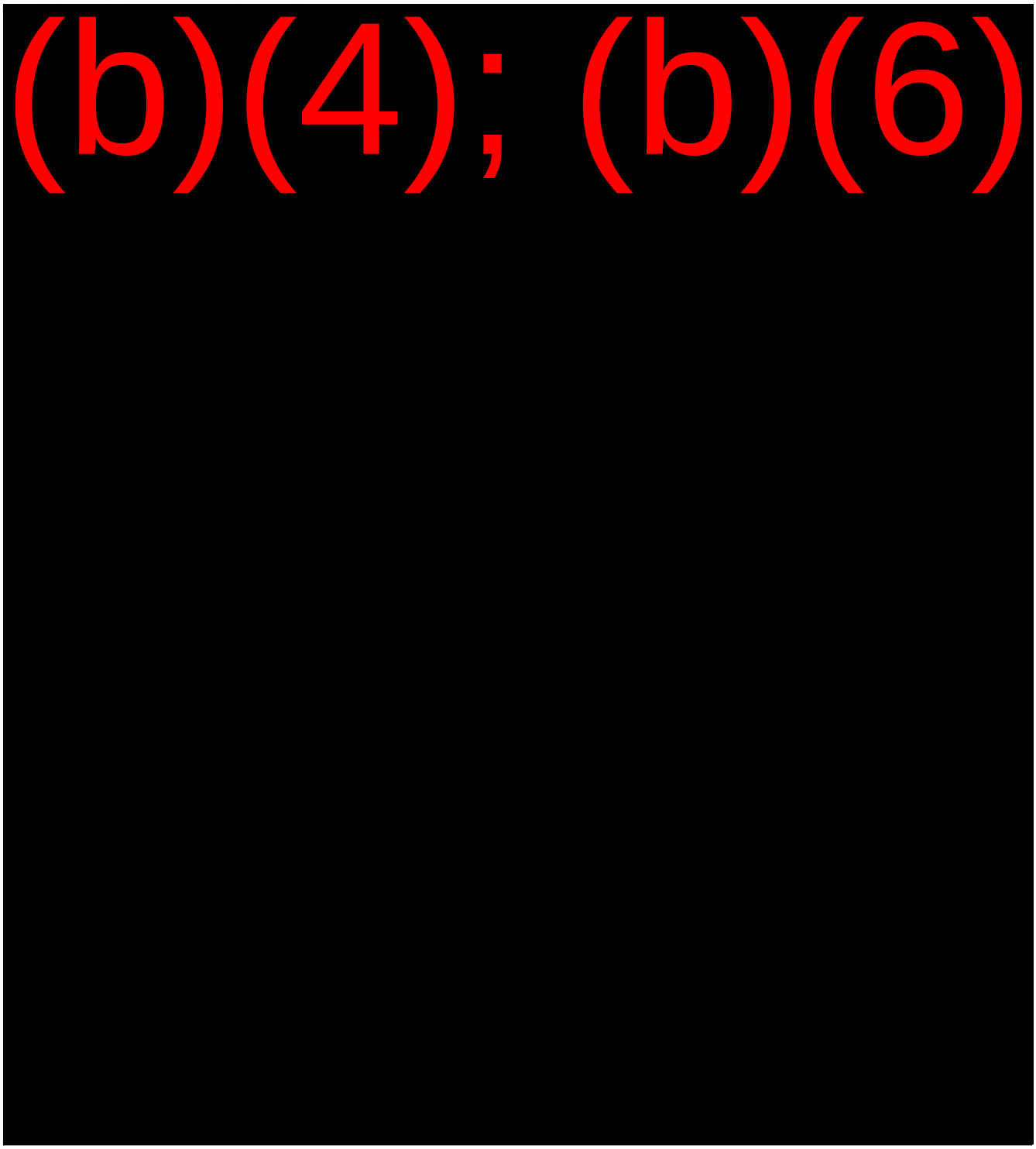

(b)(4); (b)(6)

1.9 Personnel Assignments



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1.9 Program Schedule

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2.0 Data Items

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2.3 Extreme Environment Maintenance (DIDA003)

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2.4 Hazardous Materials List (DID A004)

(b) (4)

2.5 Equipment and Installation Data (DID A005)

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2.6 Monthly Progress Reports (DID A006)

(b) (4)

2.7 Operator's Training Materials (DID A007)

(b) (4)

2.8 System User's Manual (DID A008)

(b) (4)

2.9 Maintenance/Service Manual (DID A009)

(b) (4)

2.10 Vendor Technical Documentation (DID A010)

(b) (4)

2.11 Failure and Error Reports (DID A011)

(b) (4)

2.12 Quality Assurance Plan (DID A012)

(b) (4)

2.13 Acceptance Test Plan (DID A013)

(b) (4)

2.14 Calibration Maintenance Requirement Report (A014)

(b) (4)

2.15 Radiological Survey Report (DID A015)

(b) (4)

2.16 Configuration List (DID A016)

(b) (4)

2.17 Technical Documentation Package (DID A017)

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Data Item Description A002

Reliability Prediction Report

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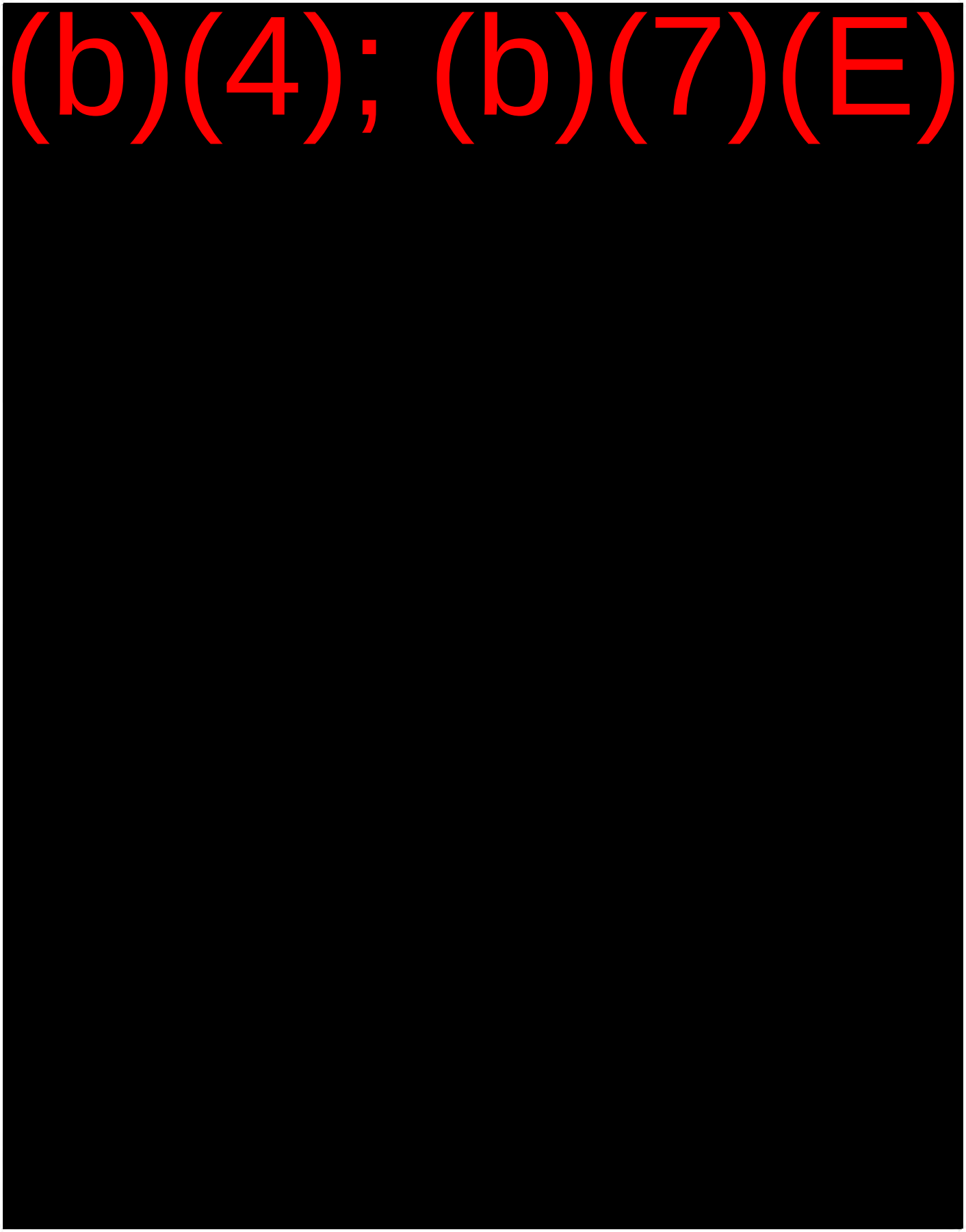
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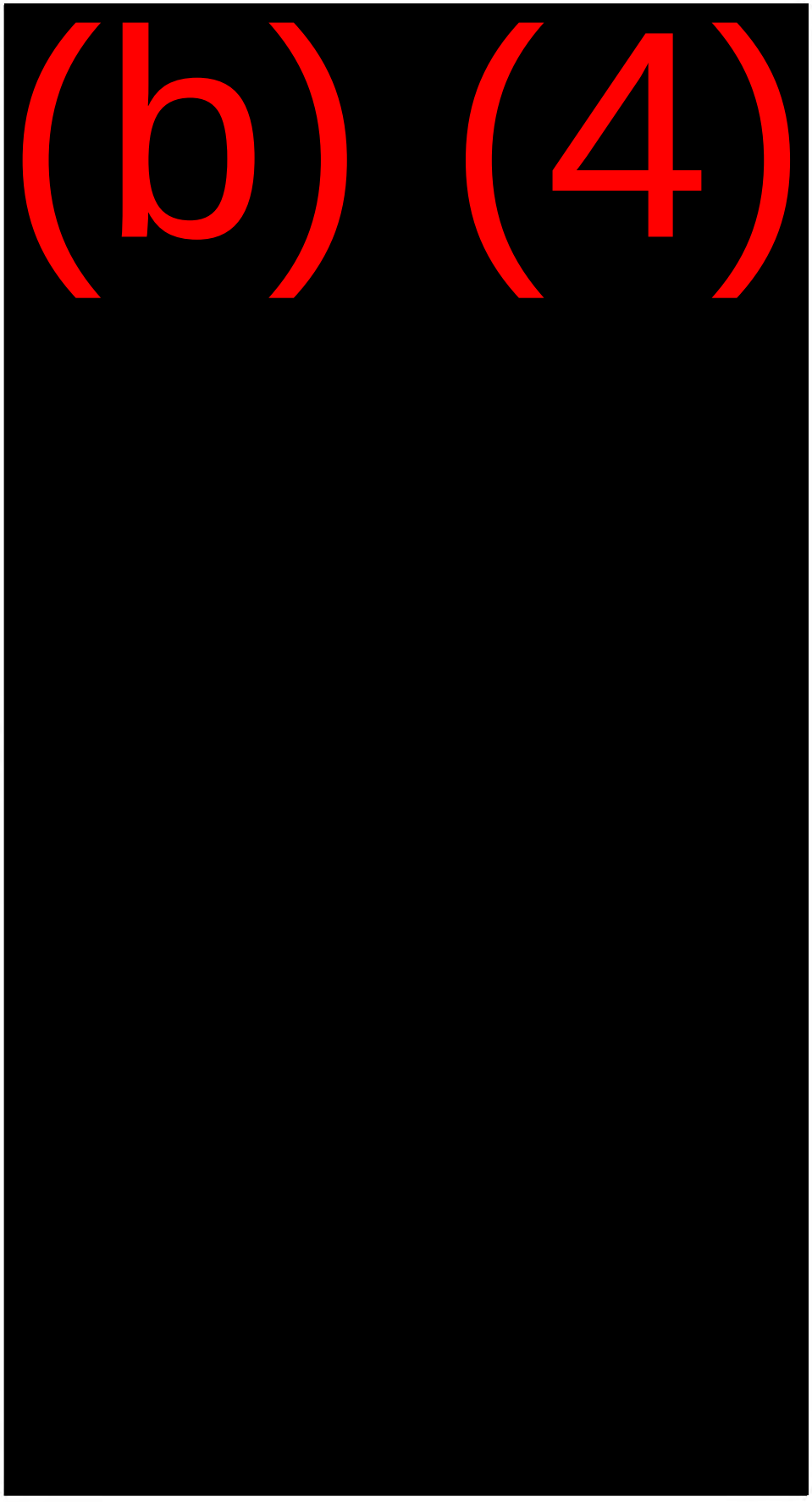
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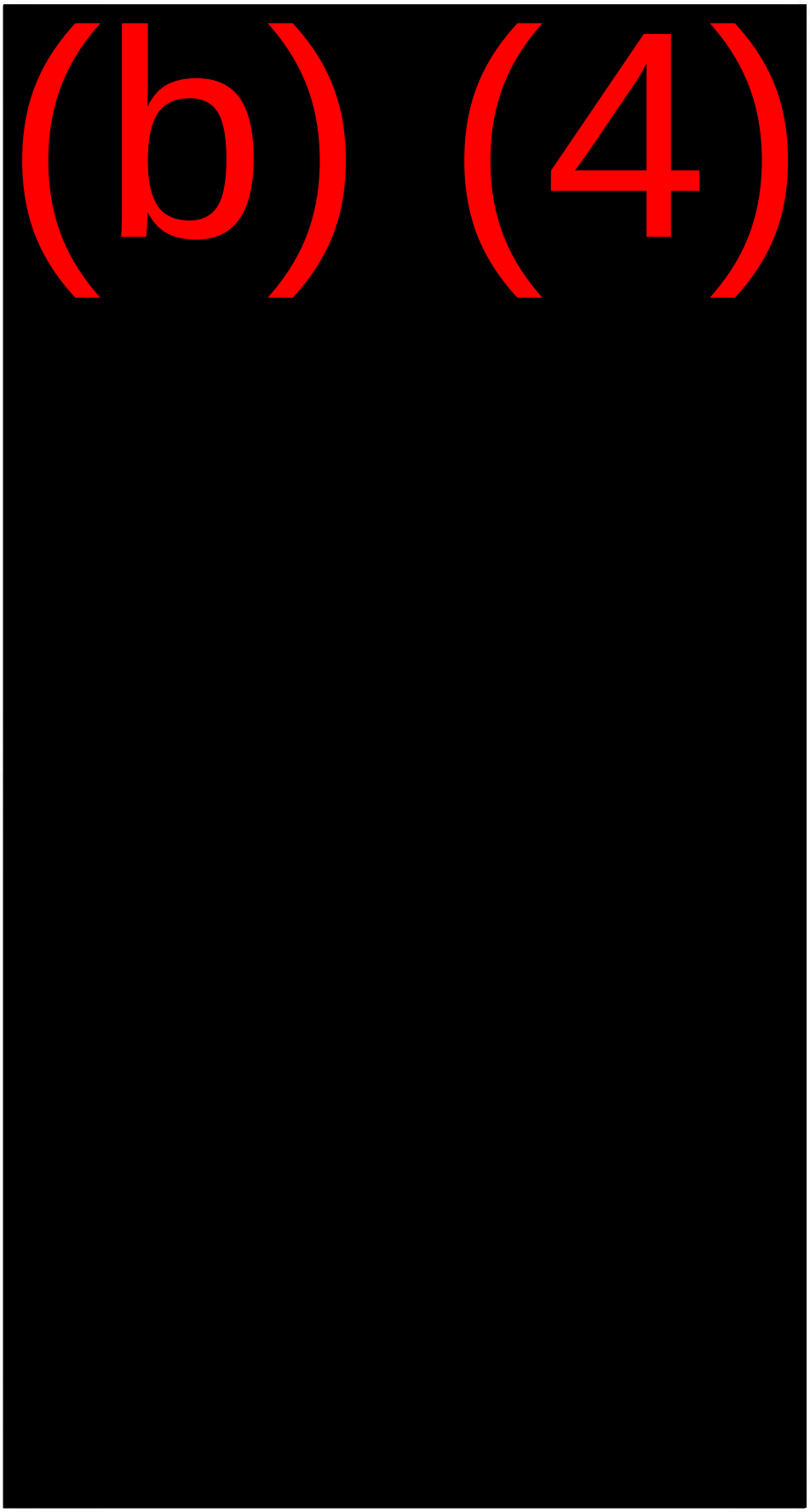
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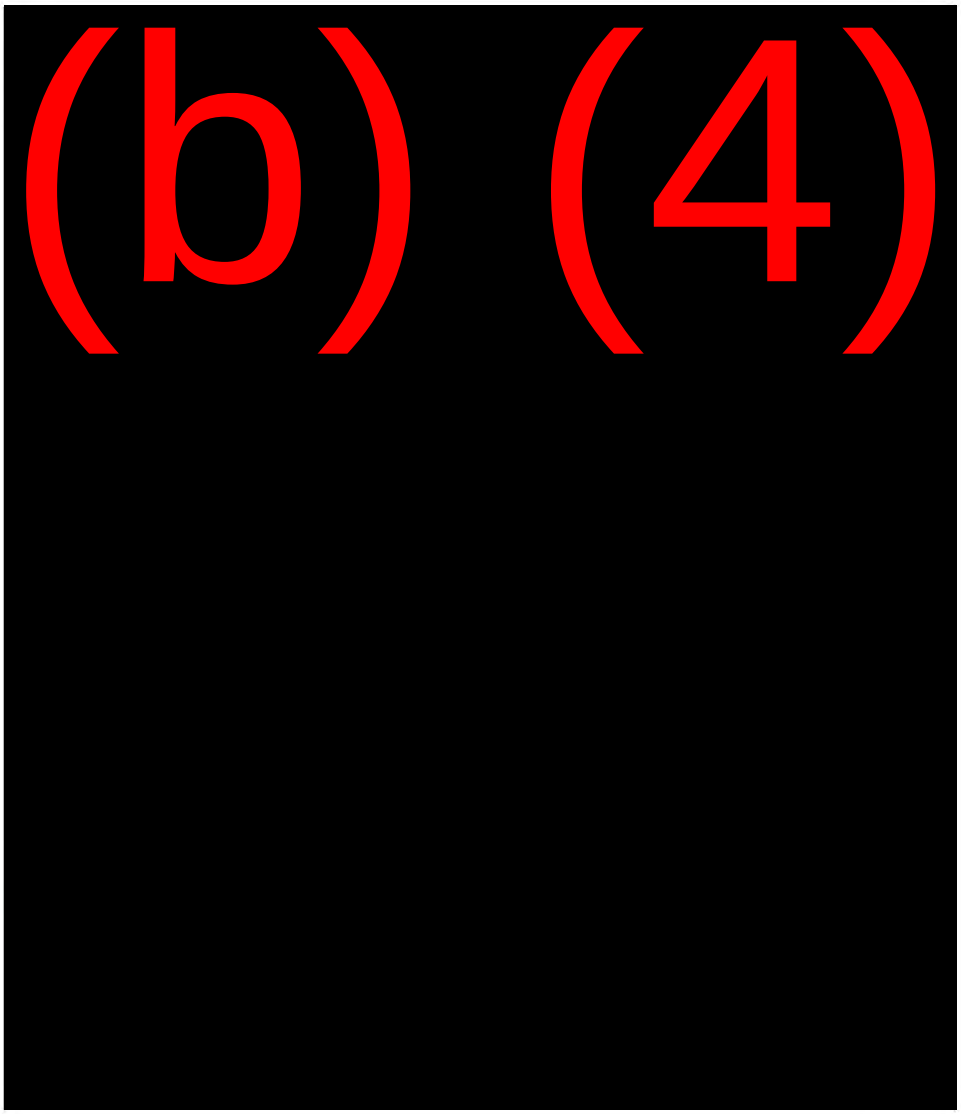
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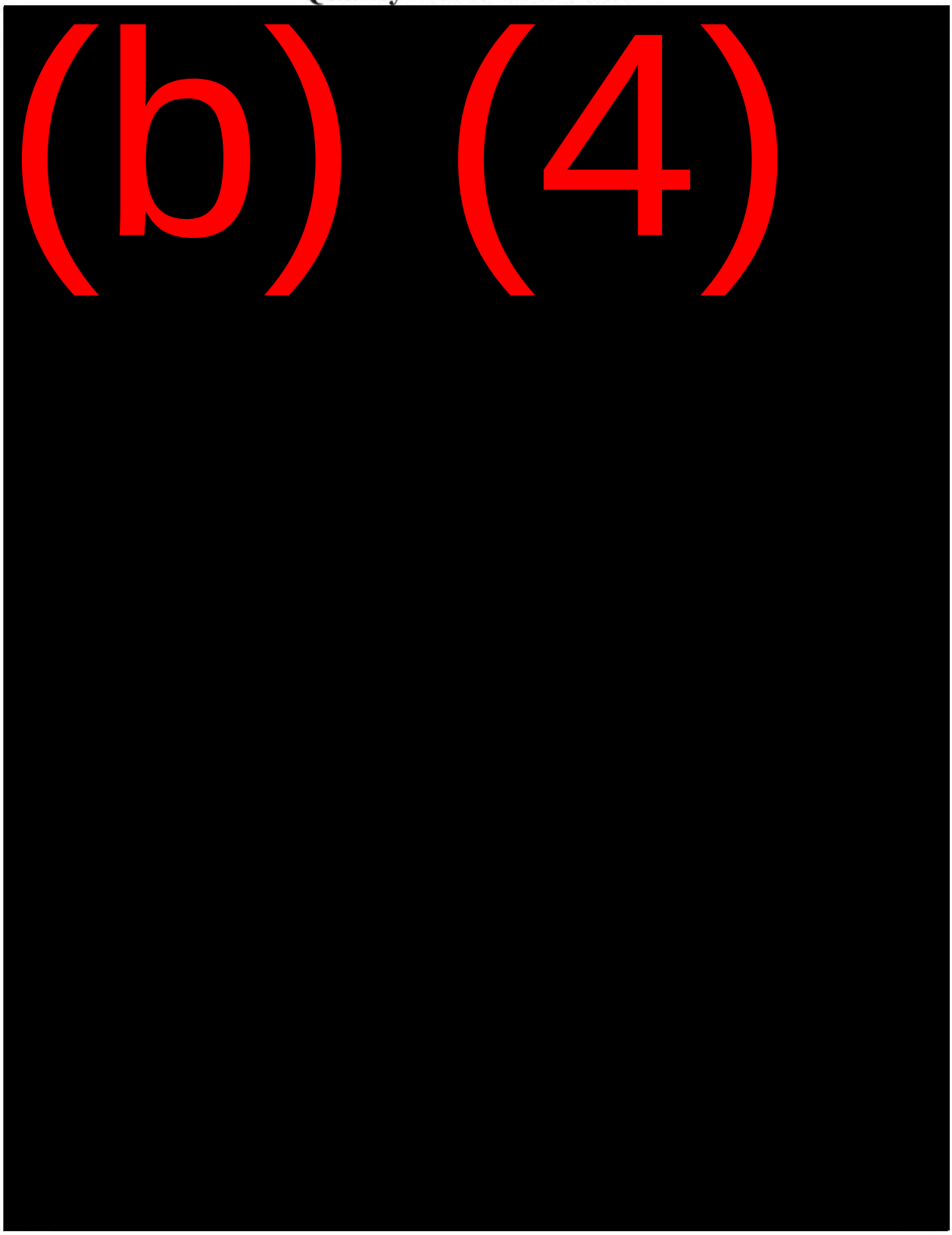
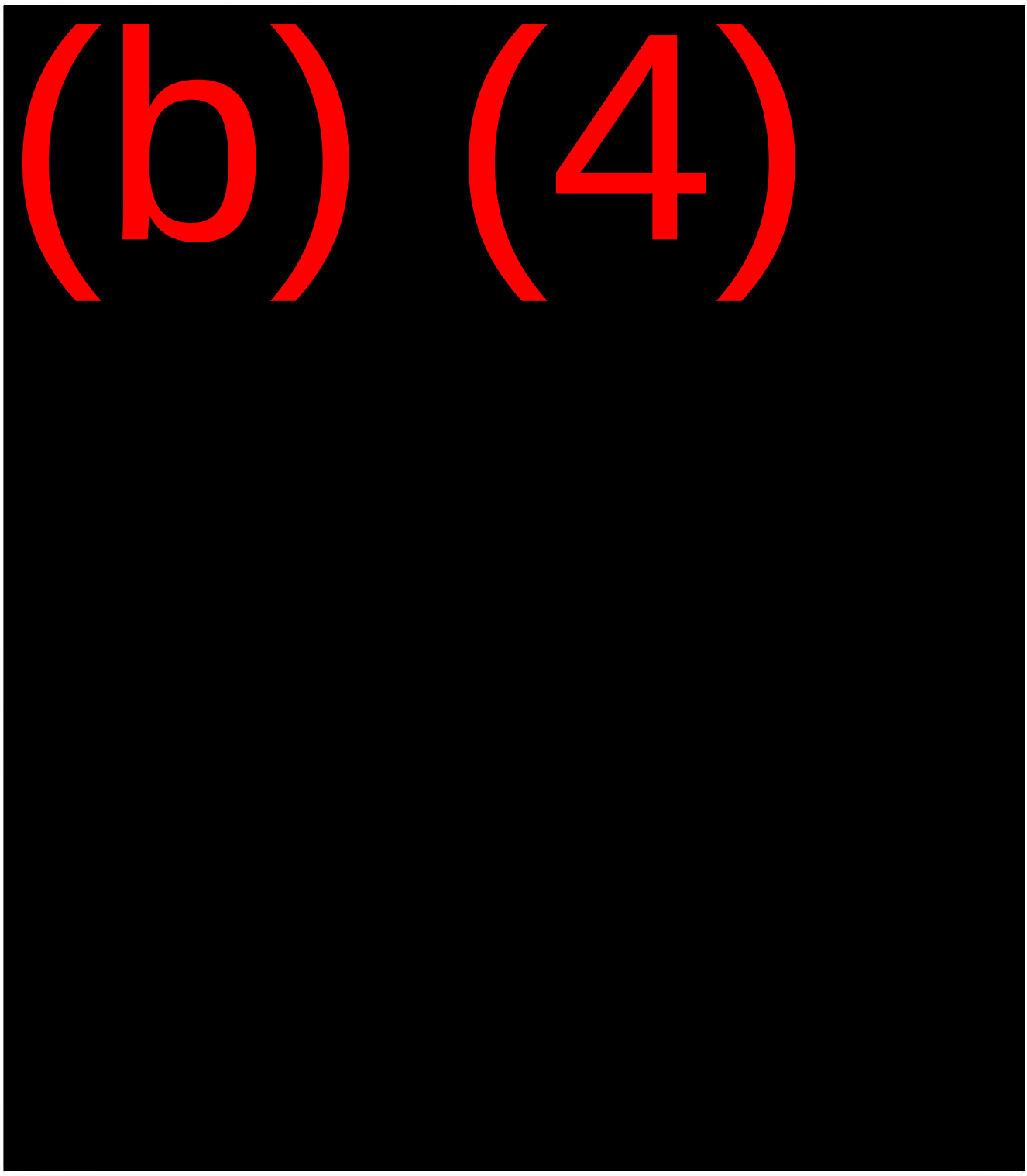
Data Item Description A012

Quality Assurance Plan

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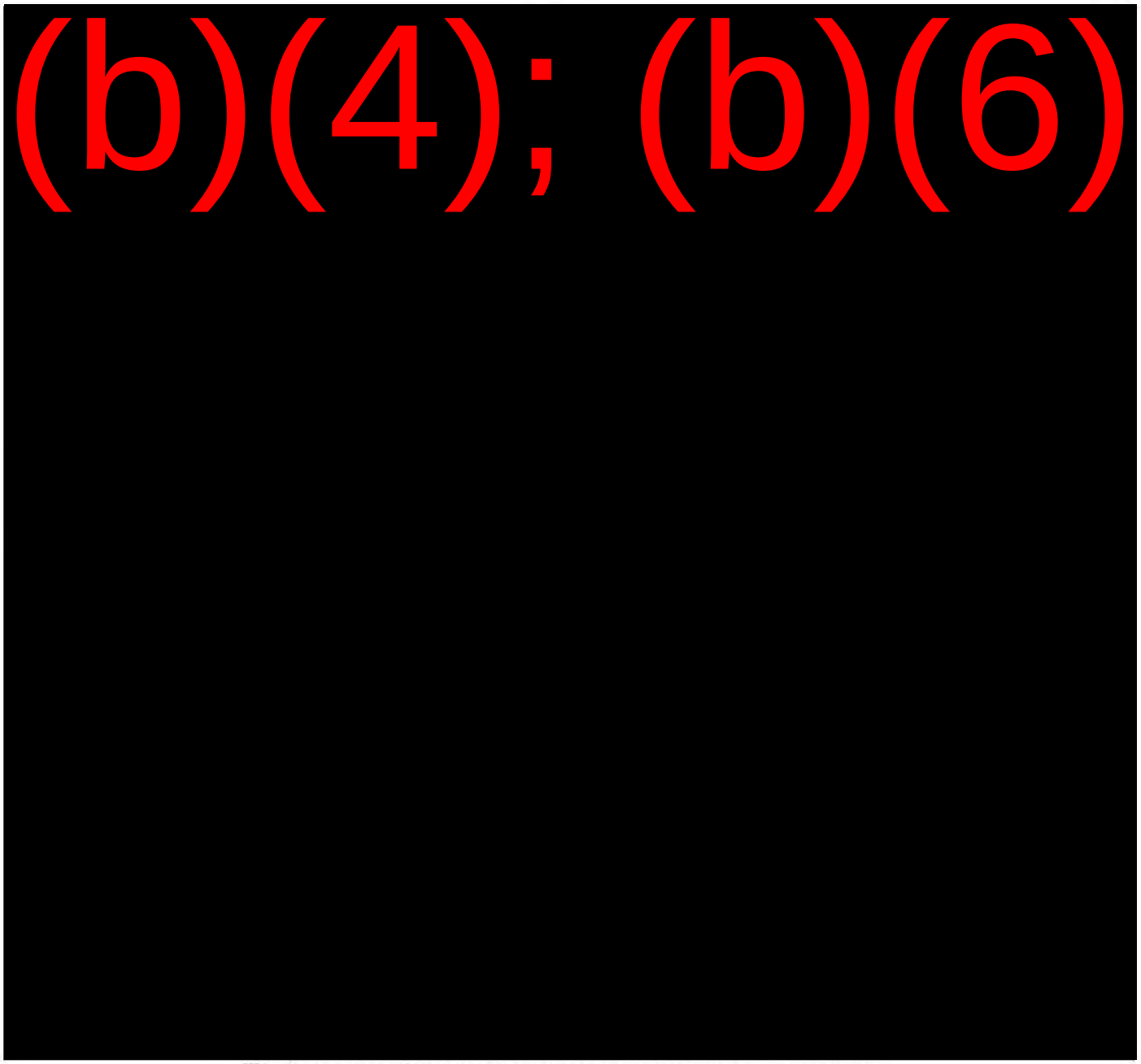
Quality Manual

QAM-001



Forward and Scope

Quality Policy and Approvals

Rapiscan Security Products, Inc. Quality Policy is

"THROUGH CONTINUAL IMPROVEMENT OF QUALITY MANAGEMENT SYSTEM, RAPISCAN SECURITY PRODUCTS, INC. SHALL MEET ALL CUSTOMER AND REGULATORY REQUIREMENTS."

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6.2 Human Resources
6.2.1 General
6.2.2 Competence, Awareness And Training
6.3 Infrastructure
6.4 Work Environment

7.0 Product Realization

7.1 Planning Of Realization Processes
7.2 Customer-Related Processes
7.2.1 Determination Of Requirements Related To The Product
7.2.2 Review Of Requirements Related To The Product
7.2.3 Customer Communication
7.3 Design and Development
7.4 Purchasing
7.4.1 Purchasing Process
7.4.2 Purchasing Information
7.4.3 Verification Of Purchased Product
7.5 Production and Service Provision
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7.5.2 Validation Of Processes For Production And Service Provision
7.5.3 Identification And Traceability
7.5.4 Customer Property
7.5.5 Preservation Of Product
7.6 Control of Measuring and Monitoring Devices

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8.2 Measurement and Monitoring
8.2.1 Customer Satisfaction
8.2.2 Internal Audit
8.2.3 Measurement And Monitoring Of Processes
8.2.4 Measurement And Monitoring Of Product
8.3 Control of Nonconformity
8.4 Analysis of Data
8.5 Improvement

ISO 9001 Based Requirements (cont'd)

8.5.1 Improvement
8.5.2 Corrective Action
8.5.3 Preventive Action

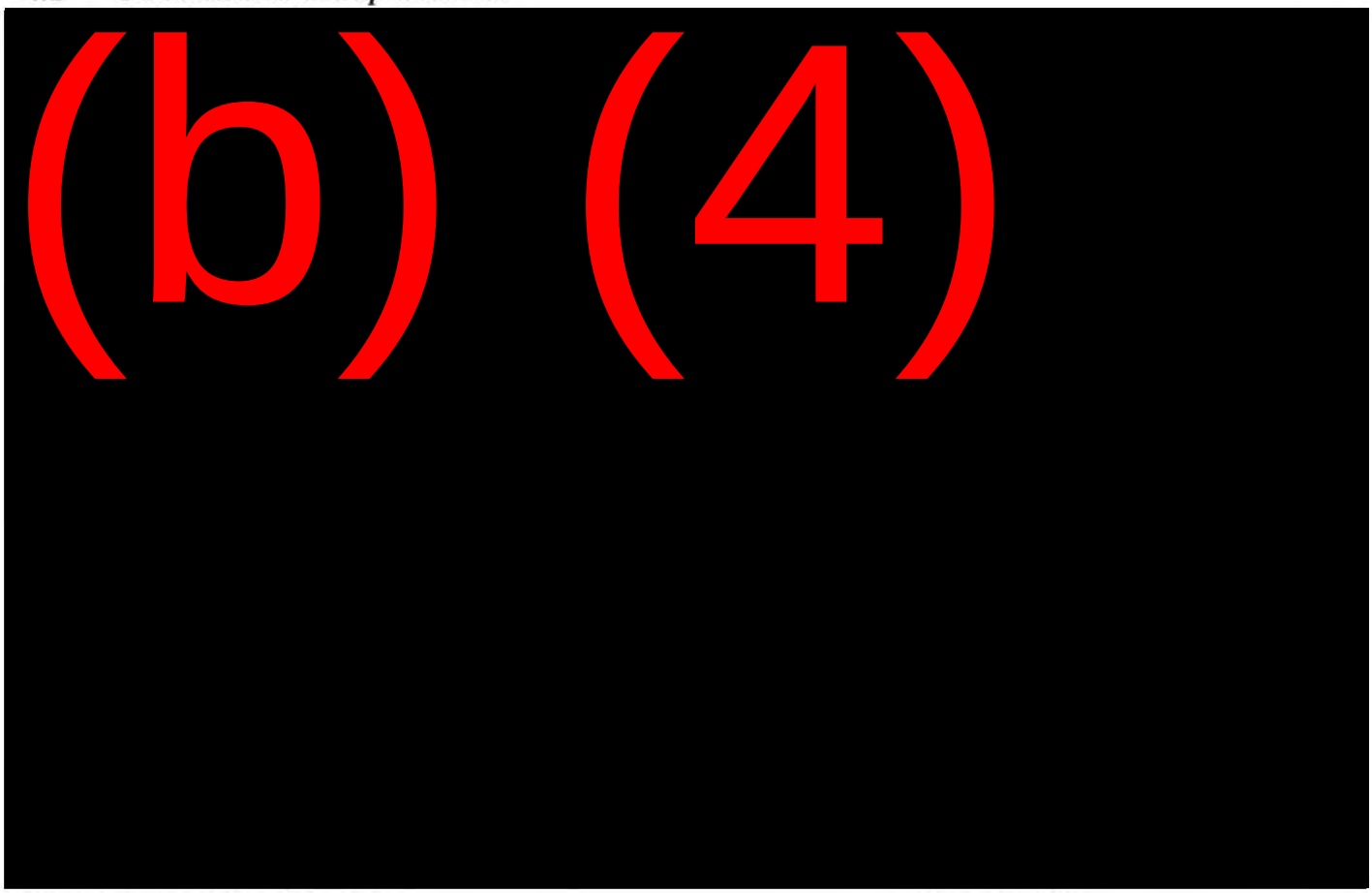
Appendices

List of Business System Procedures (Appendix i)
List of Work Instructions (Appendix ii & iii)
Rapiscan Organizational Chart (Appendix iv)
Rapiscan Quality System Flowchart (Appendix v)

4.0 Quality Management System Requirements

4.1 General Requirements

4.2 Documentation Requirements



4.2.2 Quality Manual

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4.2.3 Control of Documents

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4.2.4 Control of Quality Records

(b) (4)

(b) (4)

5.0 Management Responsibility

5.1 Management Commitment

5.1.1 **Management Responsibility**

(b) (4)

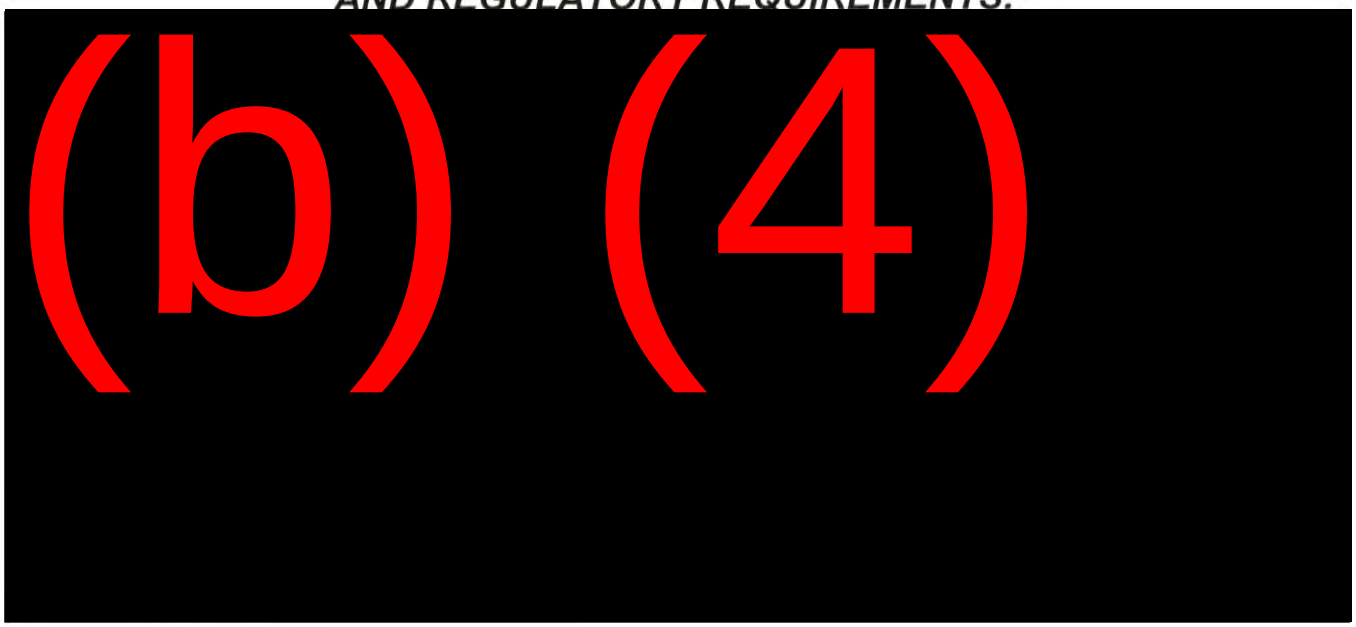
5.2 Customer focus

(b) (4)

5.3 Quality Policy of Rapiscan Security Products, Inc.

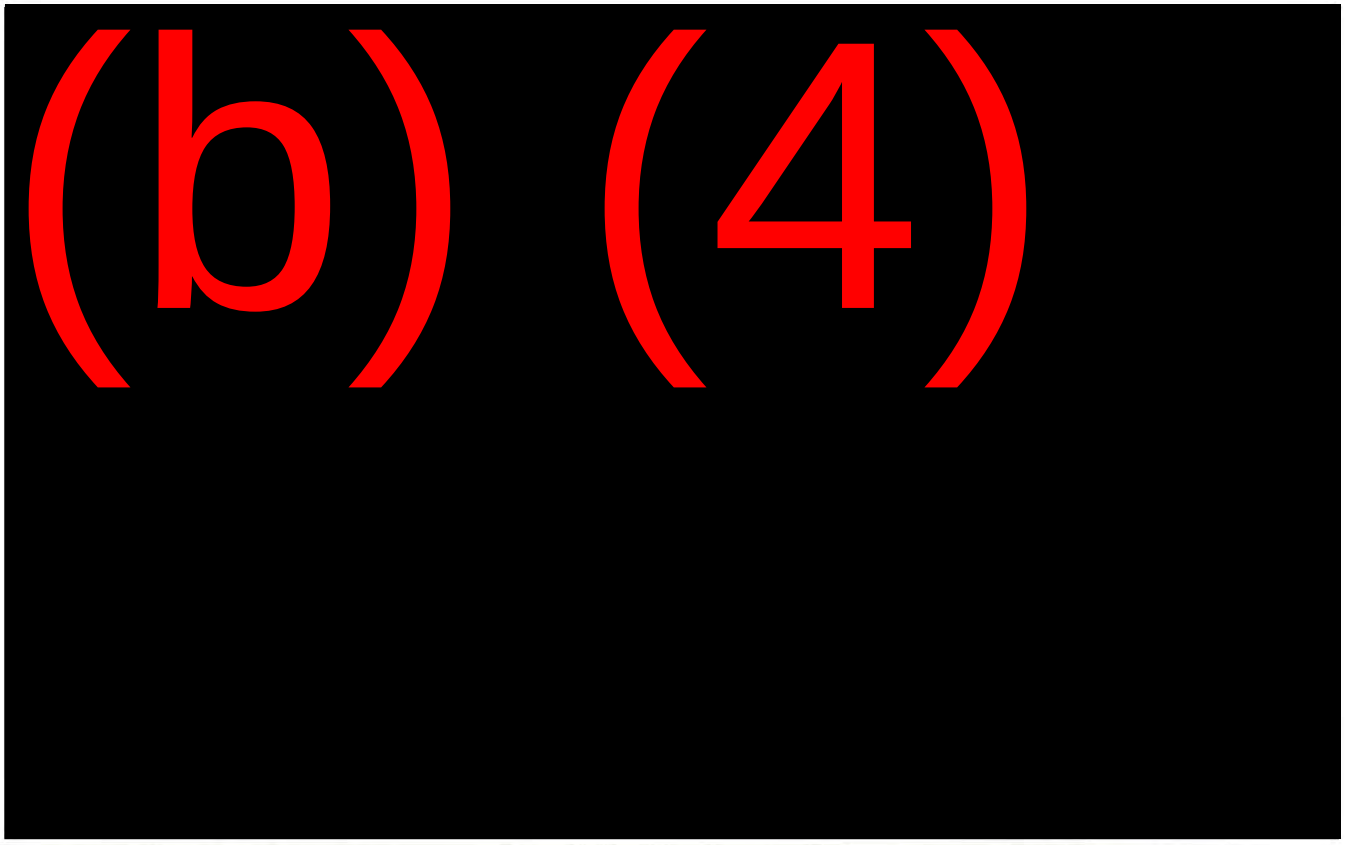
"THROUGH CONTINUAL IMPROVEMENT OF QUALITY MANAGEMENT SYSTEM, RAPISCAN SHALL MEET ALL CUSTOMER

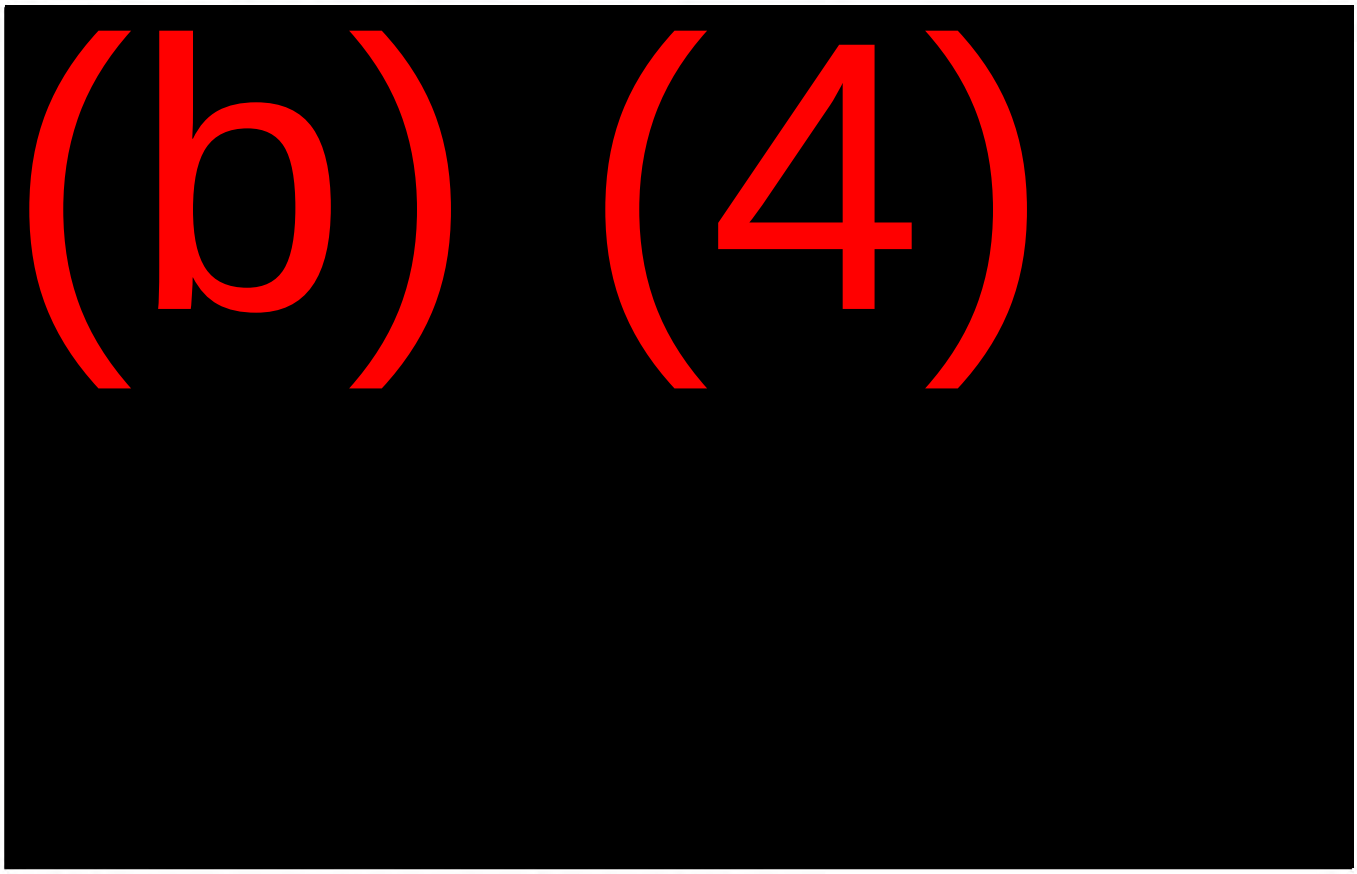
AND REGULATORY REQUIREMENTS."



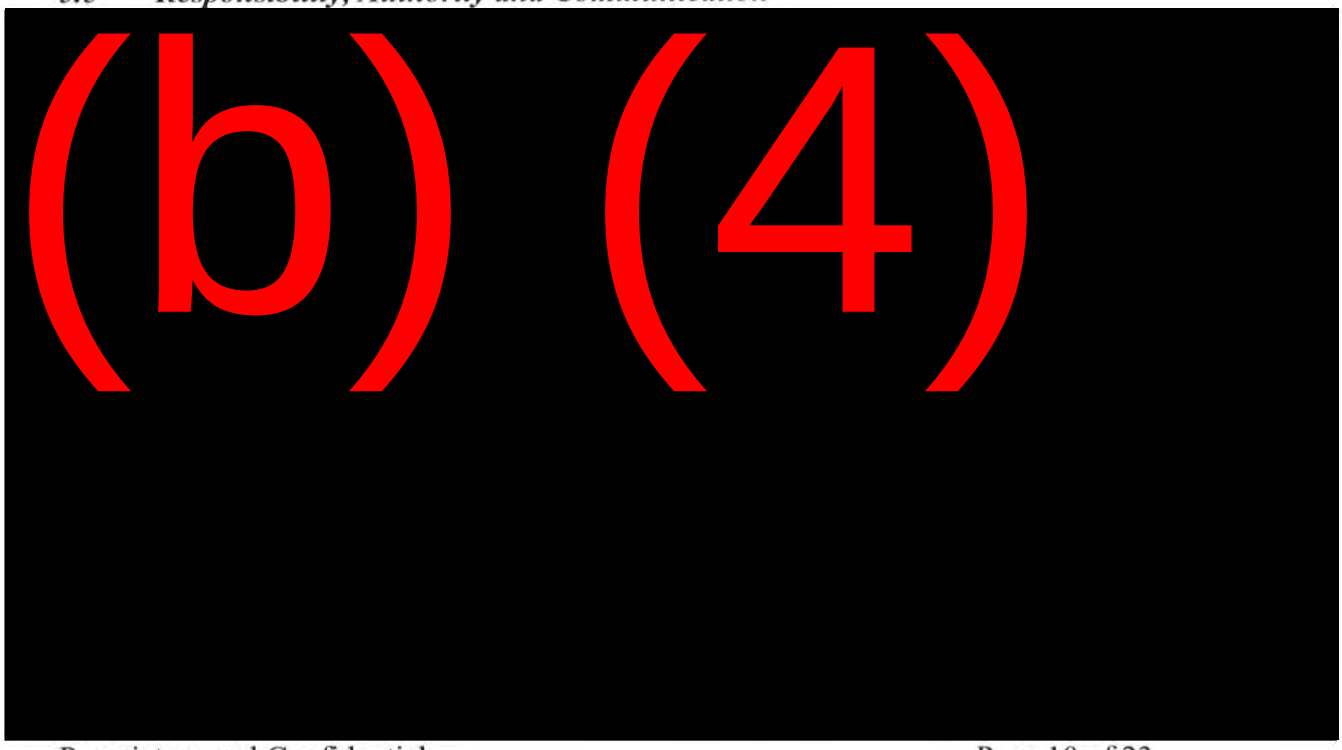
5.4 Planning

5.4.1 Quality Objectives





5.5 Responsibility, Authority and Communication



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5.5.3 Internal Communication

(b) (4)

5.6 Management Review

(b) (4)

(b) (4)

6.0 Resource Management

6.1 Provision of Resources

(b) (4)

6.2 Human Resources

(b) (4)

(b) (4)

6.3 Infrastructure

(b) (4)

6.4 Work Environment

(b) (4)

7.0 Product Realization

7.1 Planning of Product Realization

(b) (4)

7.2 Customer-related Processes

[redacted]

(b) (4)

*7.3 *Design and/or Development*

(b) (4)

*7.4 *Purchasing*

(b) (4)

7.4.2 Purchasing Information

(b) (4)

(b) (4)

7.4.3 Verification of Purchased Product

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7.5 Production and Service Provision

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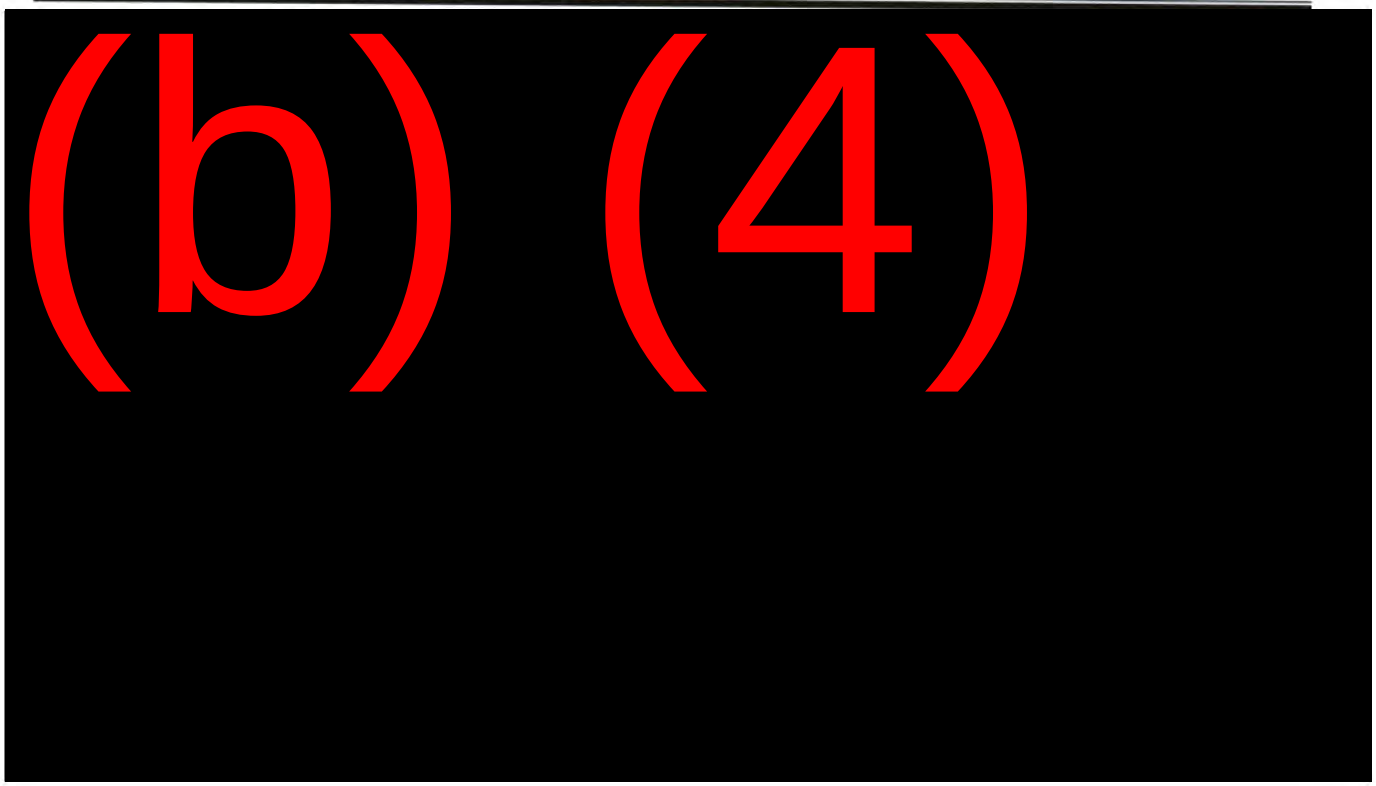
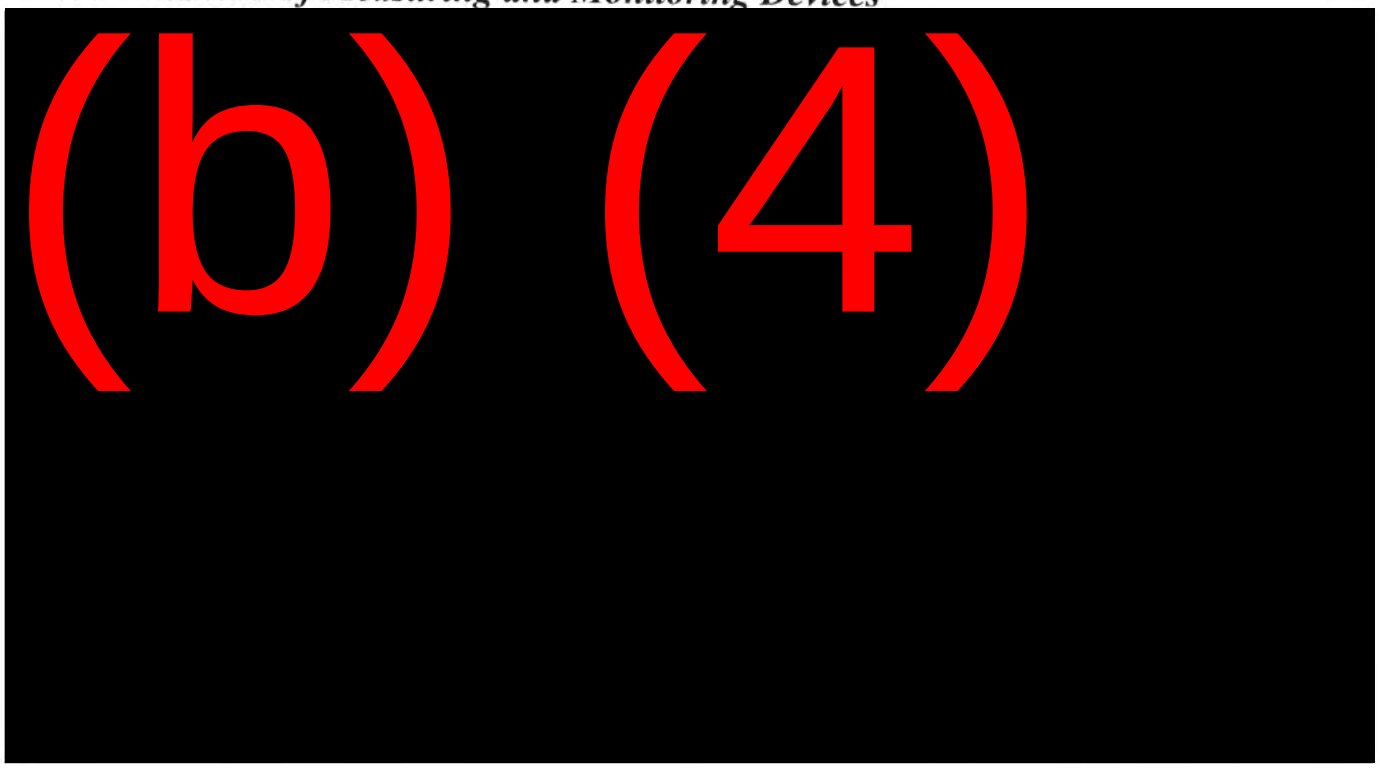
(b) (4)



7.6 Control of Measuring and Monitoring Devices



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8.0 Measurement, Analysis and Improvement

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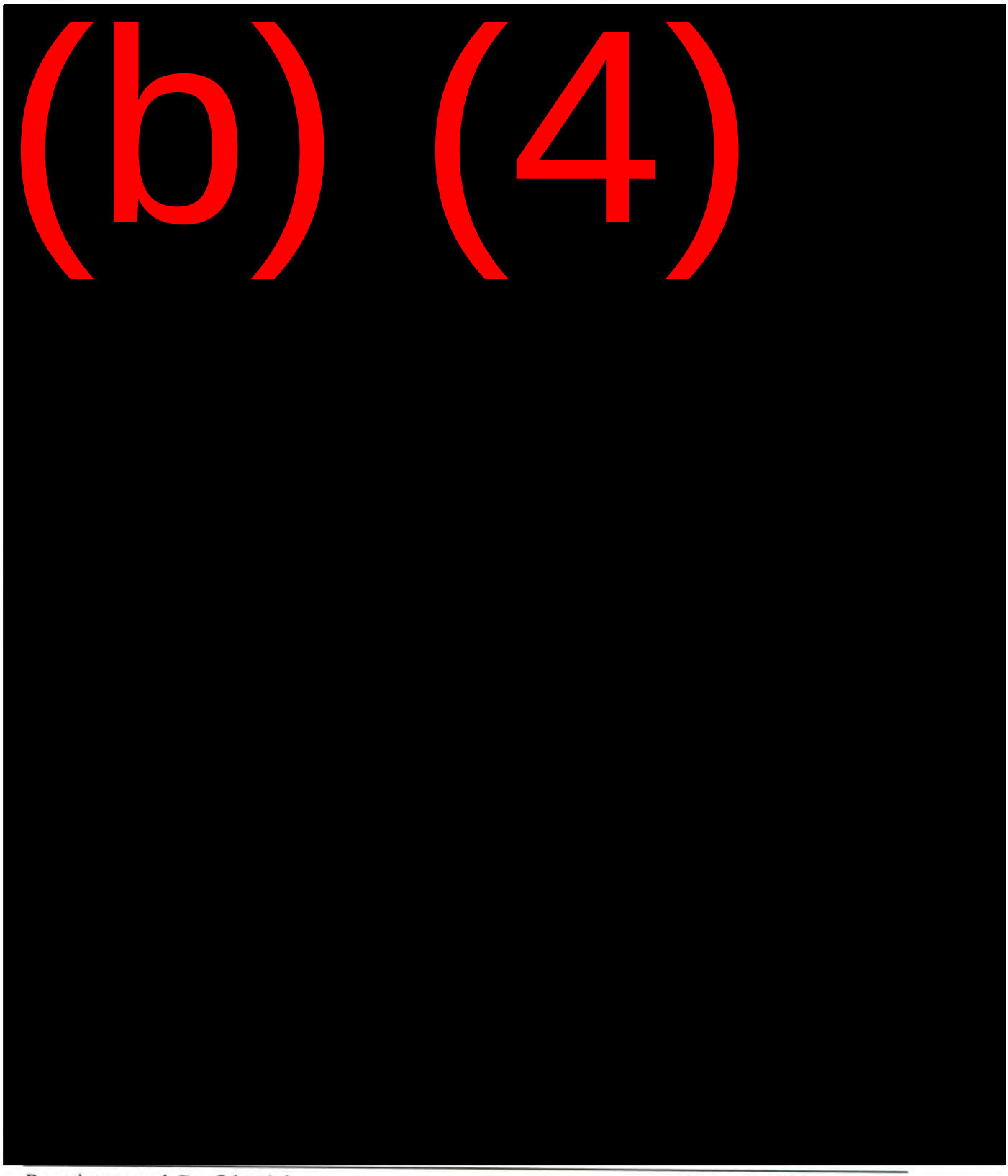
8.2 Measurement and Monitoring

(b) (4)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8.3 Control of Nonconforming Product

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8.4 Analysis of Data

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8.5 Improvement

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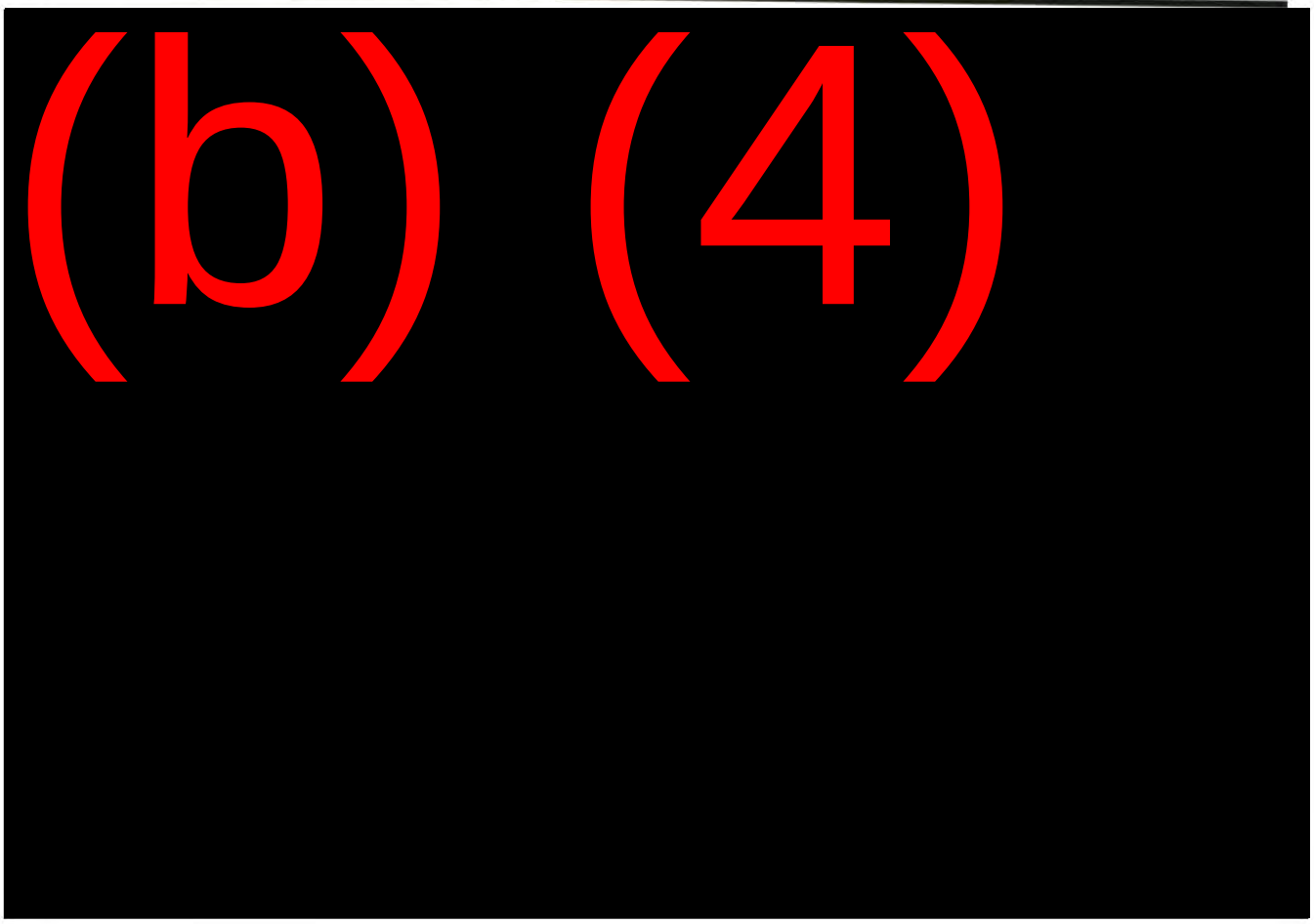
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Appendix 1
Listing of Business System Procedures

BSP-0101 Management Review
BSP-0301 Contract Review and Sales Order Input
BSP-0302 Preparation of Quotations
BSP-0401 Design Control
BSP-0402 Engineering Change Control
BSP-0501 Document Control
BSP-0601 Purchasing
BSP-0602 Supplier Selection and Evaluation
BSP-0701 Customer Supplied Product
BSP-0801 Product Identification and Traceability
BSP-0901 Process Control
BSP-1001 Receiving Inspection
BSP-1002 In-Process Inspection
BSP-1003 Final Inspection
BSP-1101 Calibration
BSP-1201 Inspection and Test Status
BSP-1301 Nonconforming Material Review Process
BSP-1401 Corrective Action
BSP-1402 Preventive Action
BSP-1501 Material Handling
BSP-1502 Shipping
BSP-1601 Quality Records
BSP-1701 Internal Auditing
BSP-1801 Training
BSP-1802 Quality System Training
BSP-1901 Servicing
BSP-2001 Statistical Techniques
BSP-2003 Continual Improvement Procedure

Appendix 2

List of Work Instructions Manual Contents

WI-0001 Generation of Technical Notes
WI-0002 Radiation Exposure Badges
WI-0005 Safety Inspection Plan
WI-0006 New X-ray Generator Test Procedure
WI-0007 Repaired Generator Test Procedure
WI-0009 Generator Burn-In
WI-0010 Electrostatic Discharge (ESD) Control
WI-0011 Generator Diagnosis and Repair
WI-0012 Generator Frequency and Pulse Width Tuning
WI-0016 Pre-Shipment Inspection
WI-0017 Inspection Stamps
WI-0018 First Article Inspection
WI-0020 New Equipment Installation
WI-0021 Routine Maintenance
WI-0022 Customer Service Invoicing
WI-0023 Radiation Emission Testing
WI-0026 Packaging Requirements for 520B and 522B
WI-0028 Supplier Corrective Action Requests
WI-0029 Suspended Material Report
WI-0030 Rapiscan Rework Sheet
WI-0031 Manufacturing Work Orders
WI-0032 Cabinet X-ray System Reports, Federal Requirements
WI-0033 Cabinet X-ray System Reports, California Requirements
WI-0035 Year 2000 Compliance Test
WI-0036 In-process Inspection for Standard X-Ray Systems
WI-0040 Hazard Communication Program
WI-0041 General Safety Rules
WI-0043 General Tank Vacuuming and Filling
WI-0045 Collimation
WI-0046 Image Quality and Array Mapping
WI-0047 Generator Diagnosis and Repair in Field
WI-0048 Logo Use
WI-0049 Soldering High Voltage Multiplier Board
WI-0050 SORMA Procedure
WI-0051 Installation and Site Acceptance Test, Rap 520B and 522B TRX X-ray System
WI-0053 Generator Seasoning and Burn-in, 180kv
WI-0054 Generator Frequency and Pulse Width Tuning, 180kv
WI-0055 Secure-1000 X-ray Tube Head Assembly Procedure
WI-0056 System Test – Computer ATX Procedures
WI-0058 X-ray Machines -- Load Test

Appendix 2(Continued)
List of Work Instructions Manual Contents

WI-0060 Conformal Coating Work Instructions
WI-0061 Assembly of Invision SP Computer 733 MHz
WI-0063 Refurbished Generator Procedure
WI-0064 Generator Seasoning Procedure
WI-0065 Computer Tracking Procedure and Repair
WI-0066 Software Bug and Enhancements Tracking Procedure
WI-0067 RSP Exchange Server Back-Up Procedure
WI-0068 RSP Back-Up Server Procedure
WI-0069 Lead Shield Placement Policy
WI-0070 Testing of Main Control Board Replacement Kit P/N 2313138
WI-0071 80KV Generator Test Procedure
WI-0072 80KV Generator Frequency and Pulse Width Tuning
WI-0073 Acceptance of New or Revised Software
WI-0074 Breakdown Voltage Measurement of Insulating Oil for X-ray Generator
WI-0076 Instruction for Field Installation of TSA Interface Kit
WI-0078 Installation of TIP Software Version for Type 520 Machines


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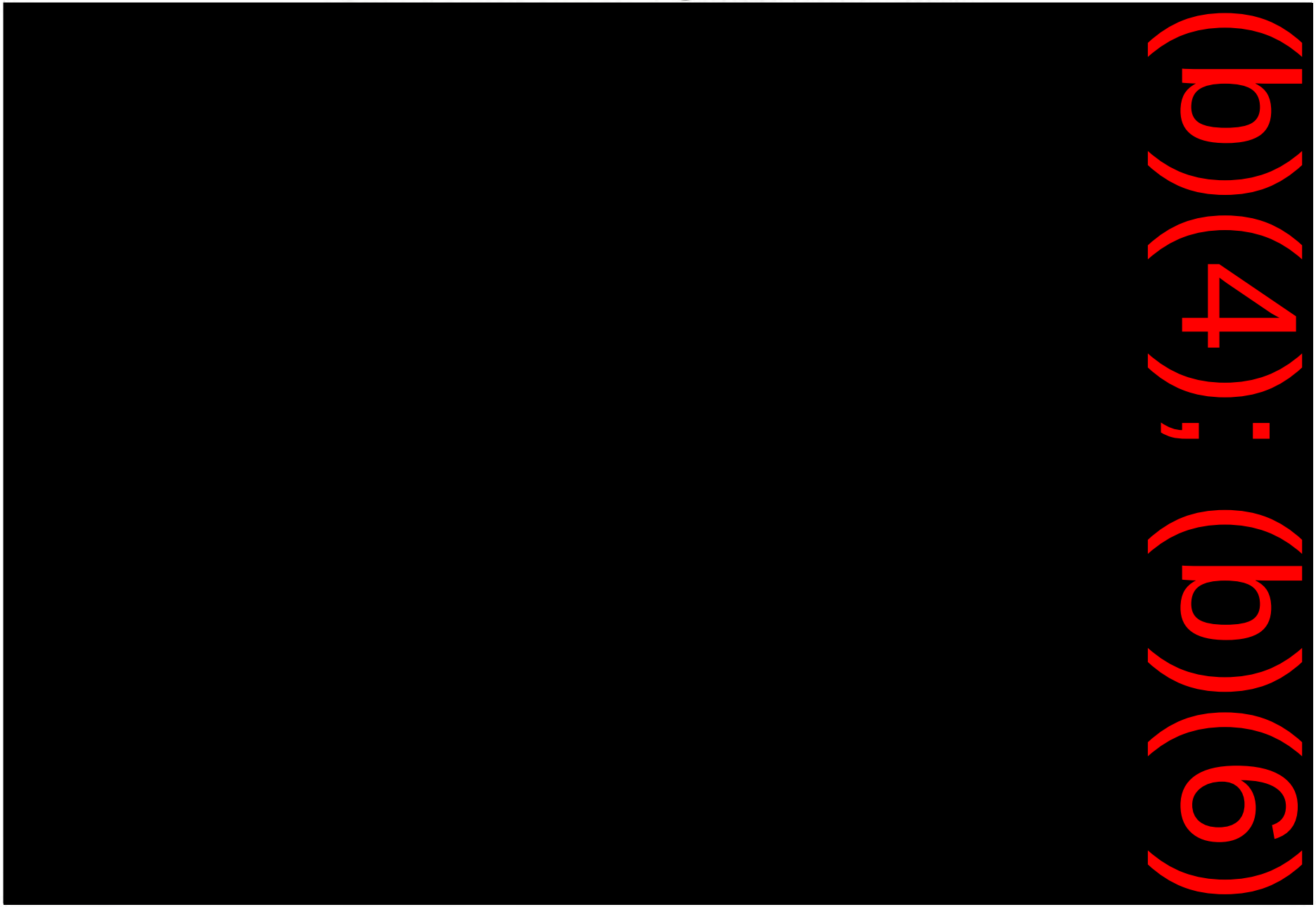
(4)

Rapiscan Security Products
Quality Assurance Organizational Chart



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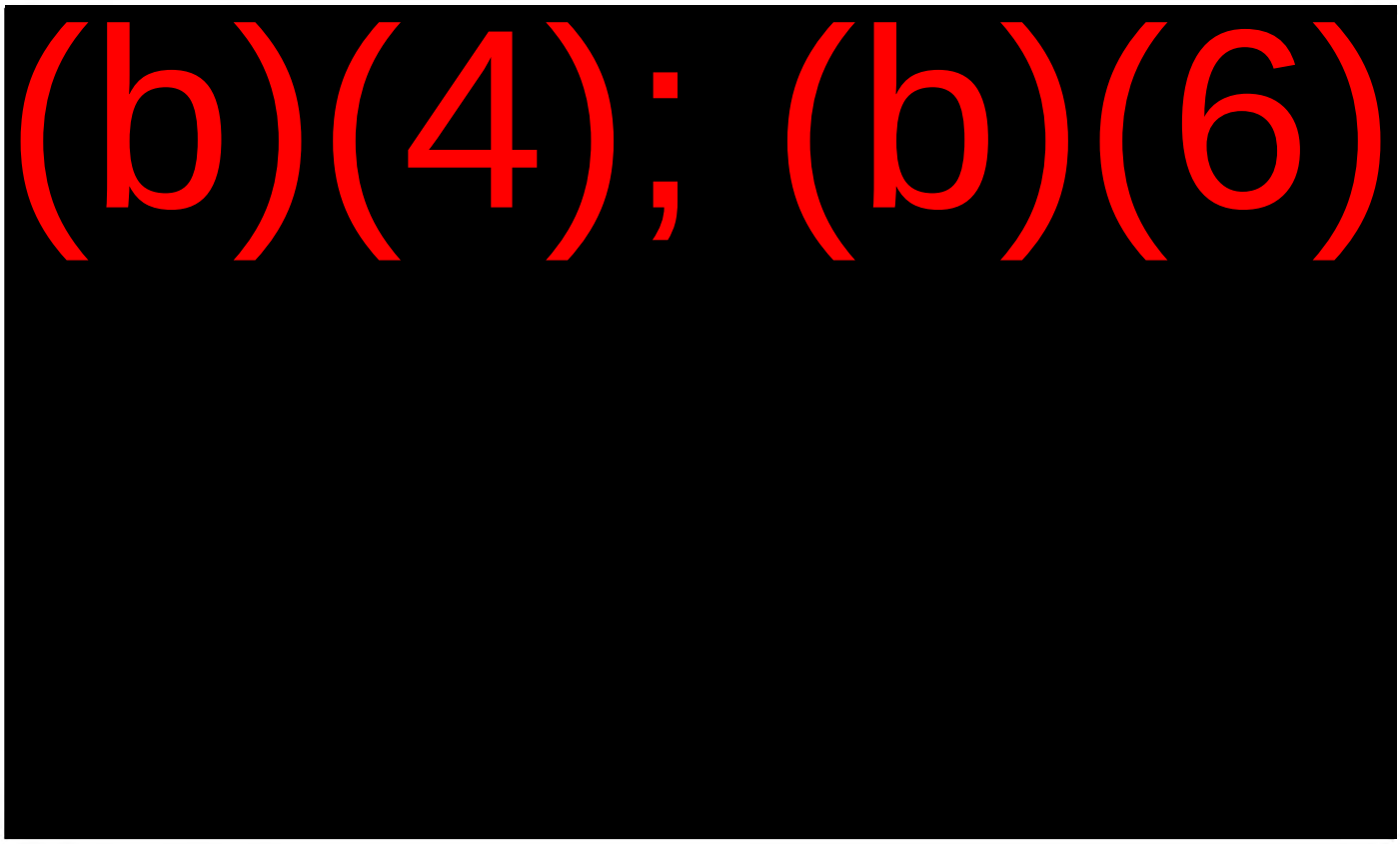
Final Acceptance Test Procedure for Gamma Radiographic Detection System (GaRDS)

Document Number: R- 0352-7 GaRDS 4200 Final Acceptance Test



Model Number_____

Serial Number_____

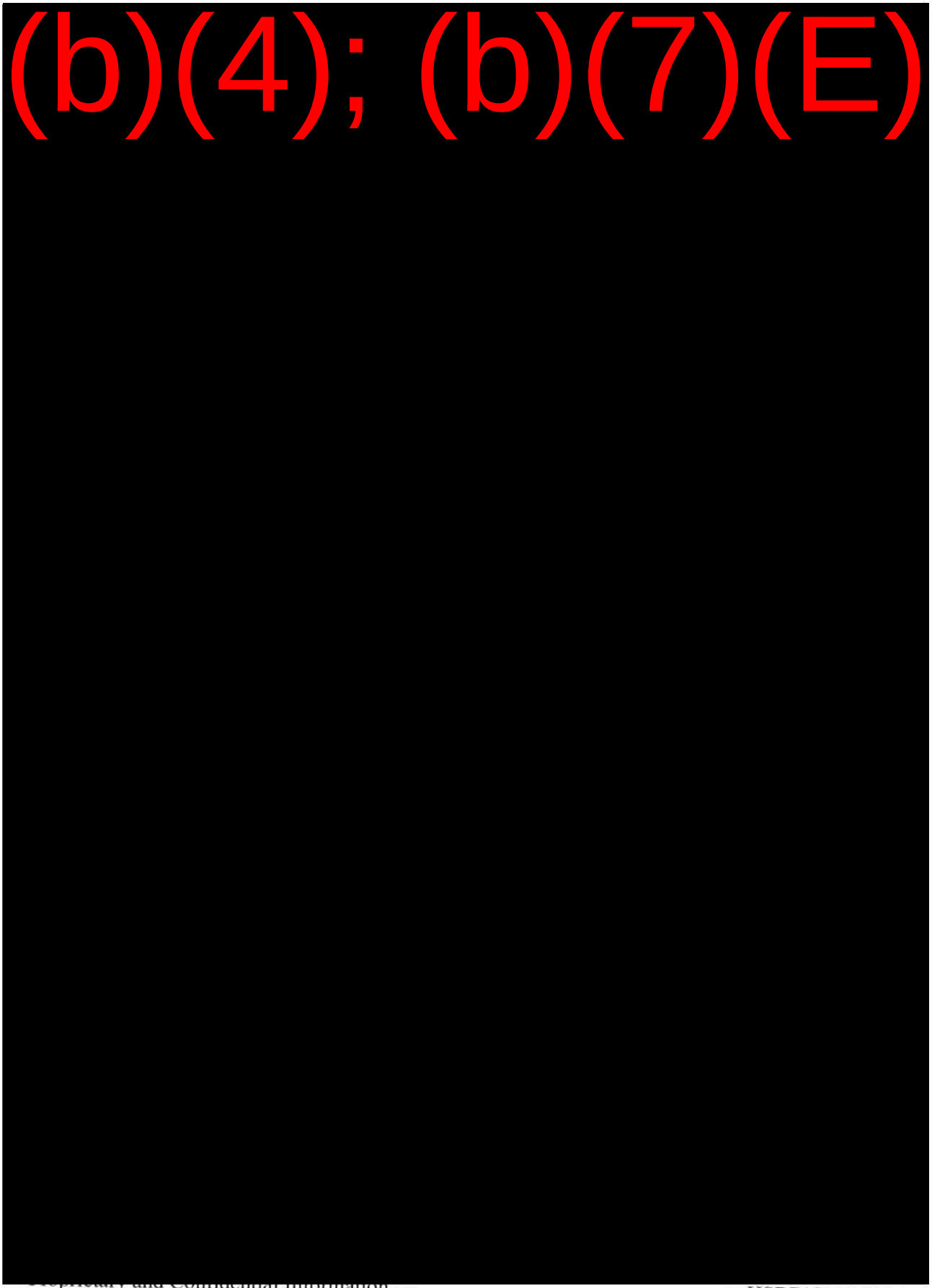
Drive Configuration (Circle One): **L/H** **R/H**

Sales Order No._____

CONFIGURATION:

System Model Number	**GaRDS 4200**
System Serial Number	
Truck VIN	
Radiation Source Type	
Source Serial Number	
Customer	
Customer Address	
Location of Final Acceptance Test	
Date of Final Acceptance Test	

GAMMA RADIOGRAPHIC DETECTION SYSTEM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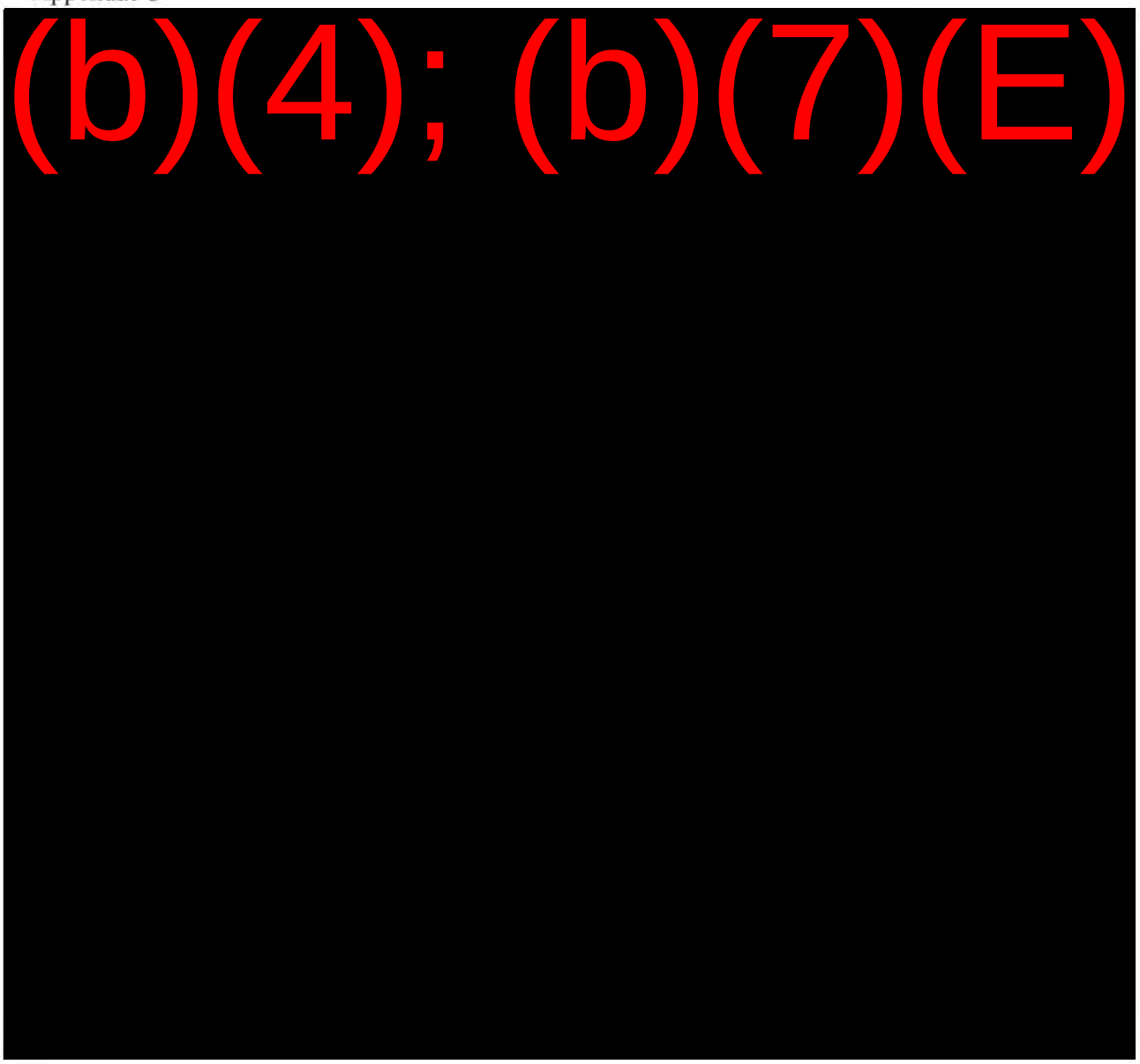
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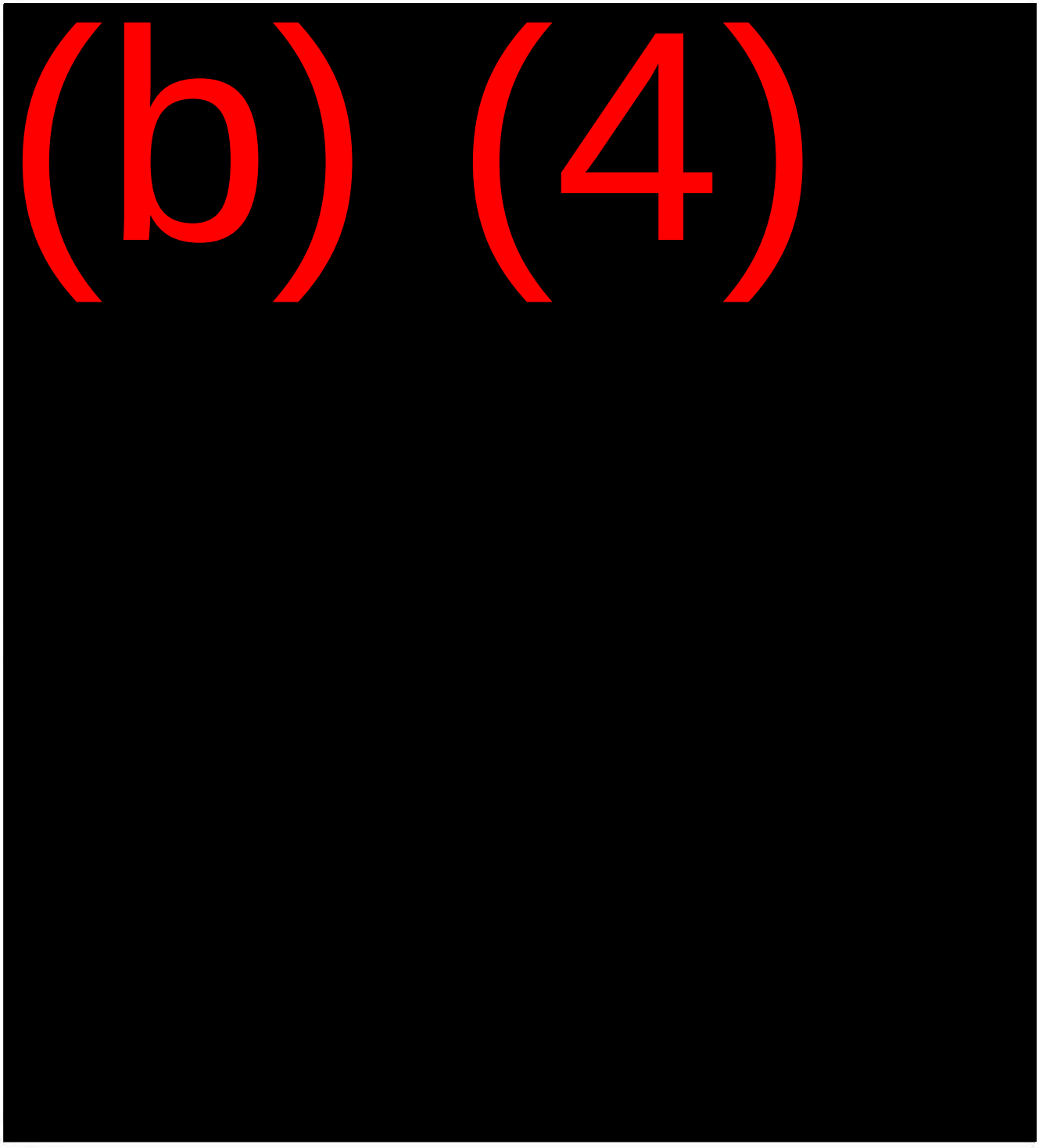
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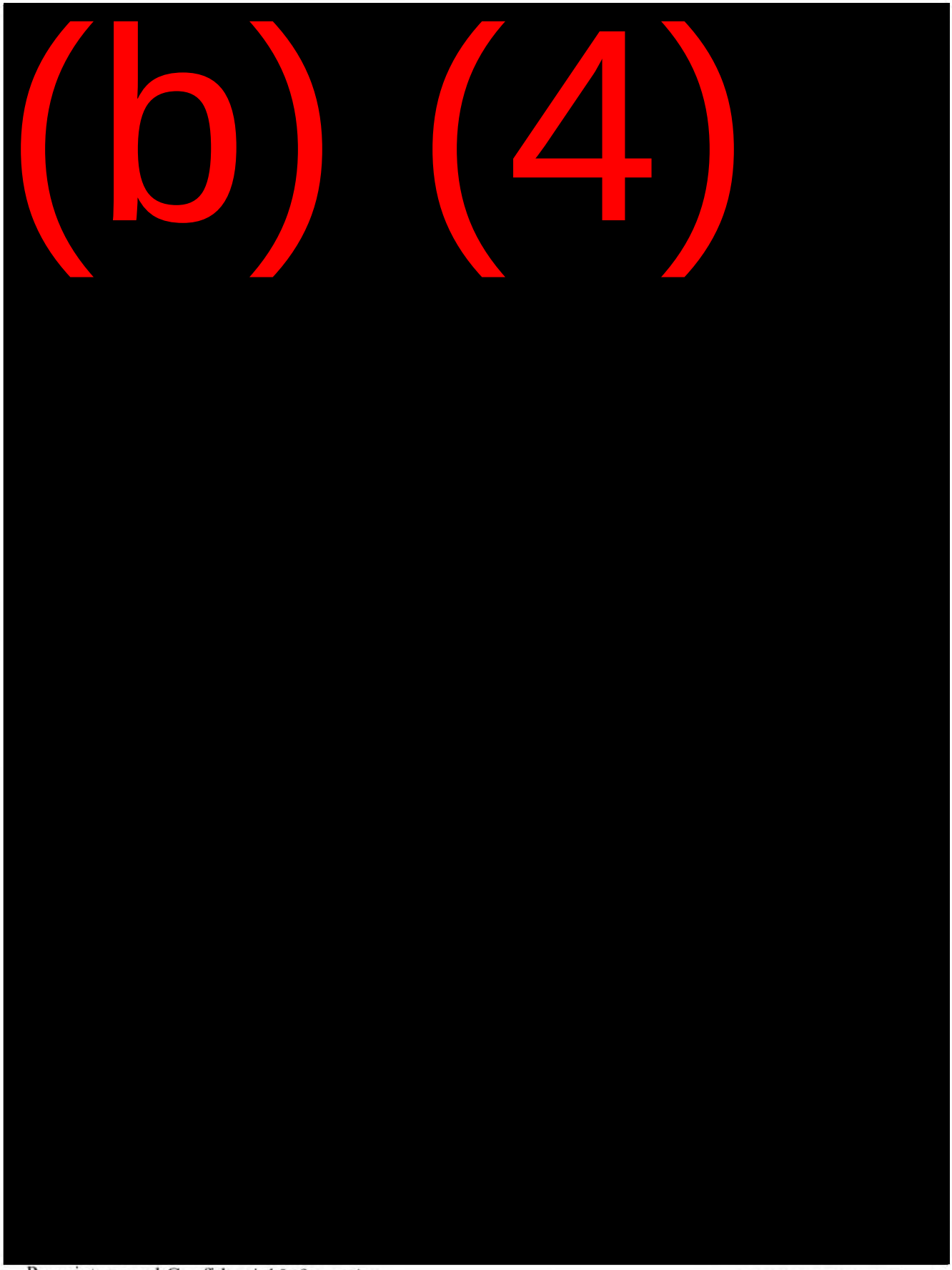
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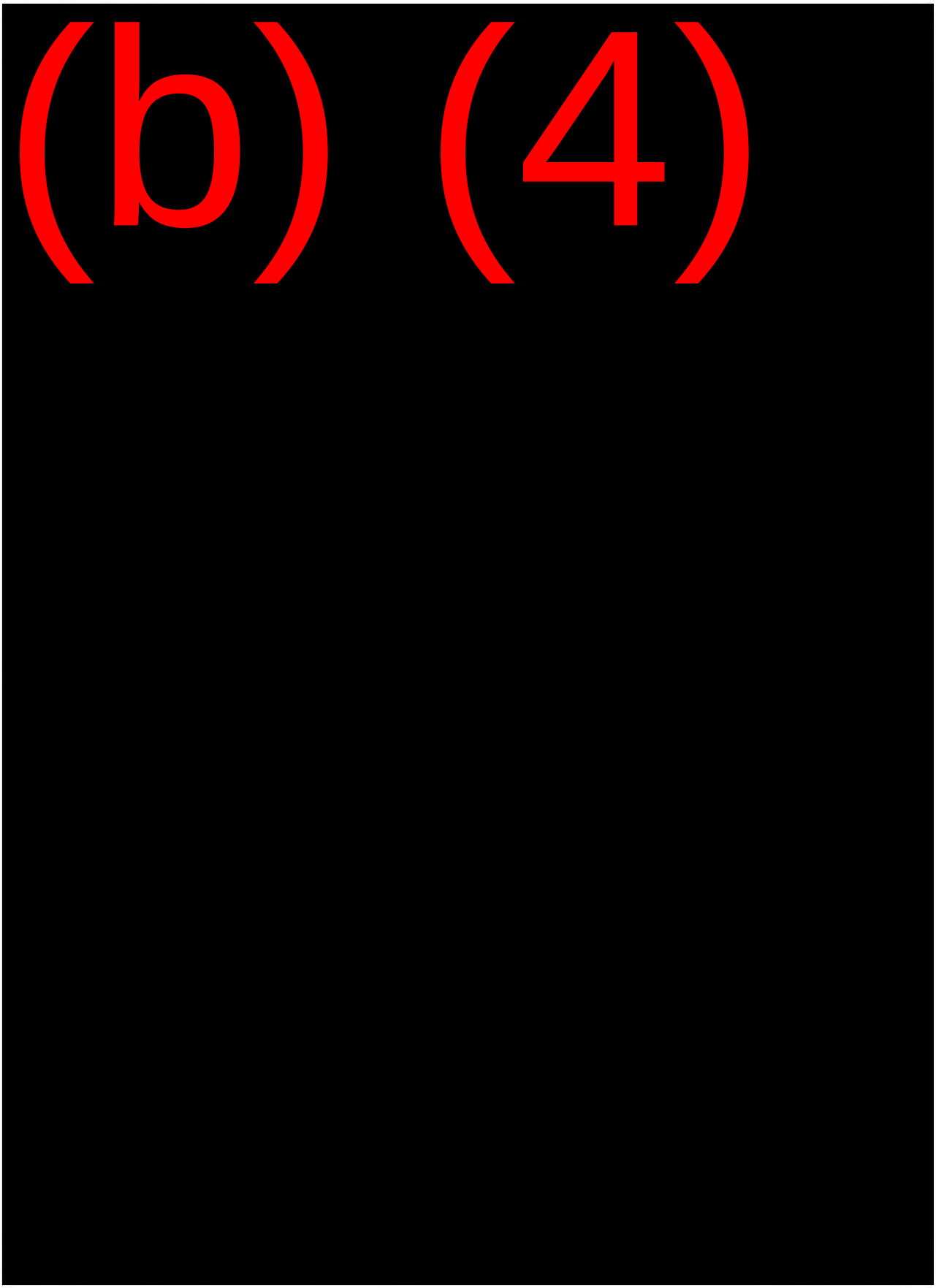
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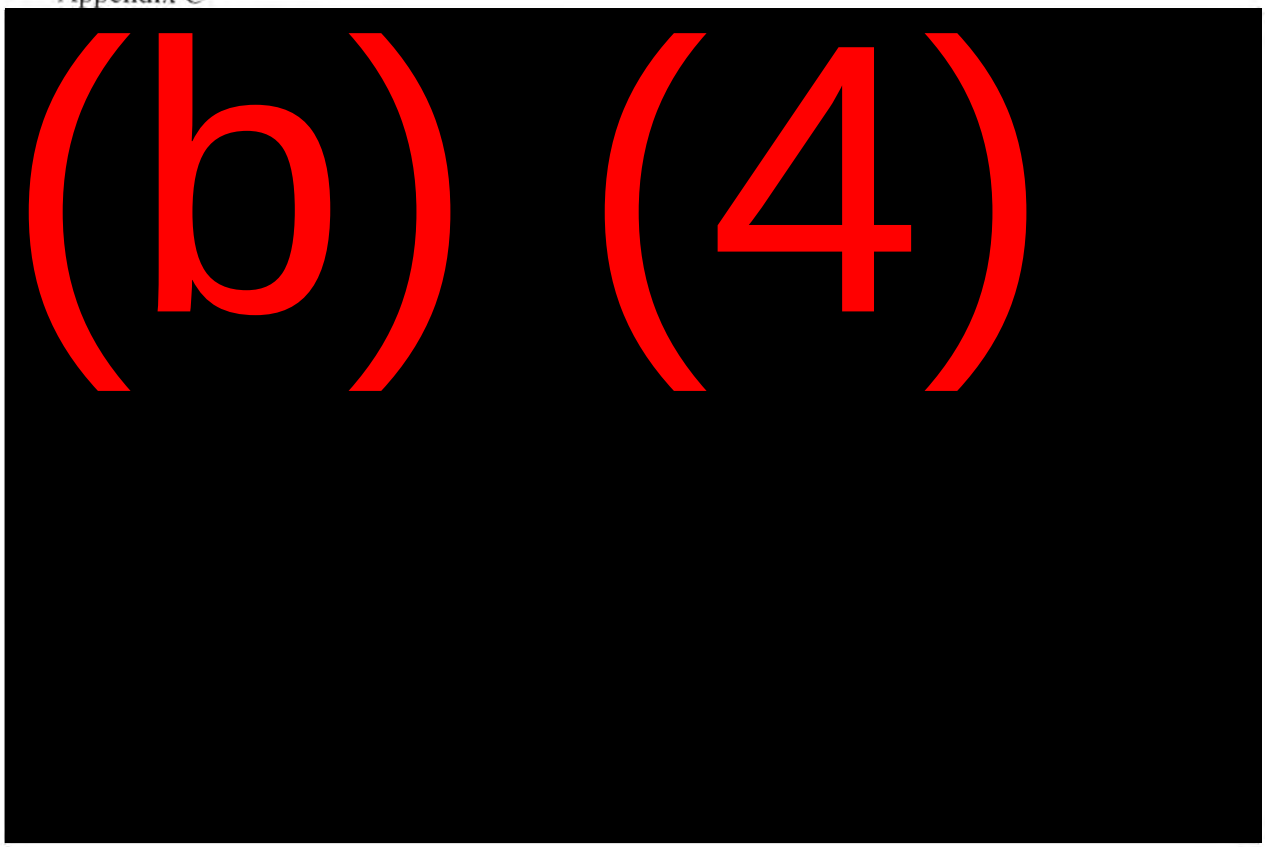
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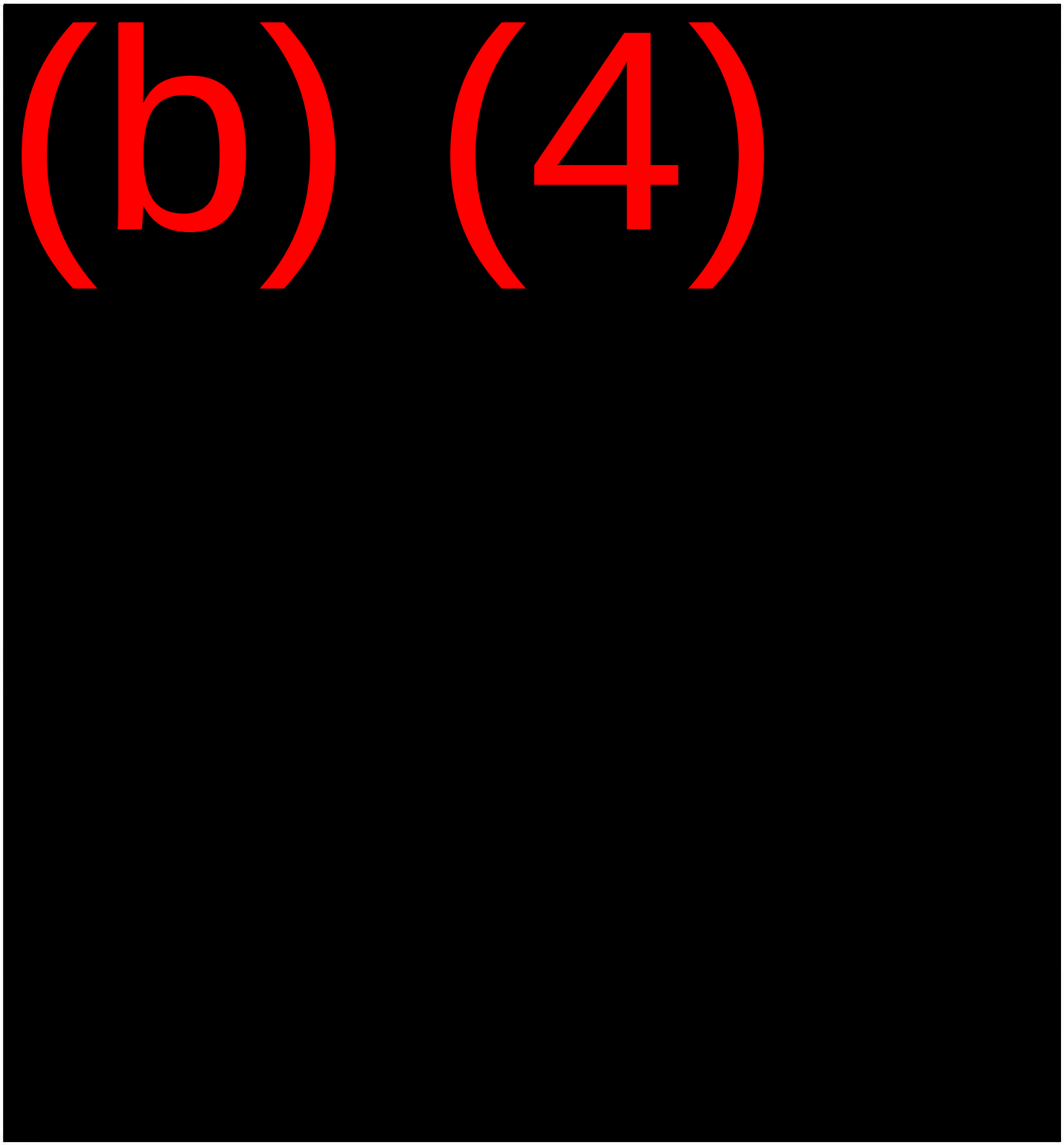
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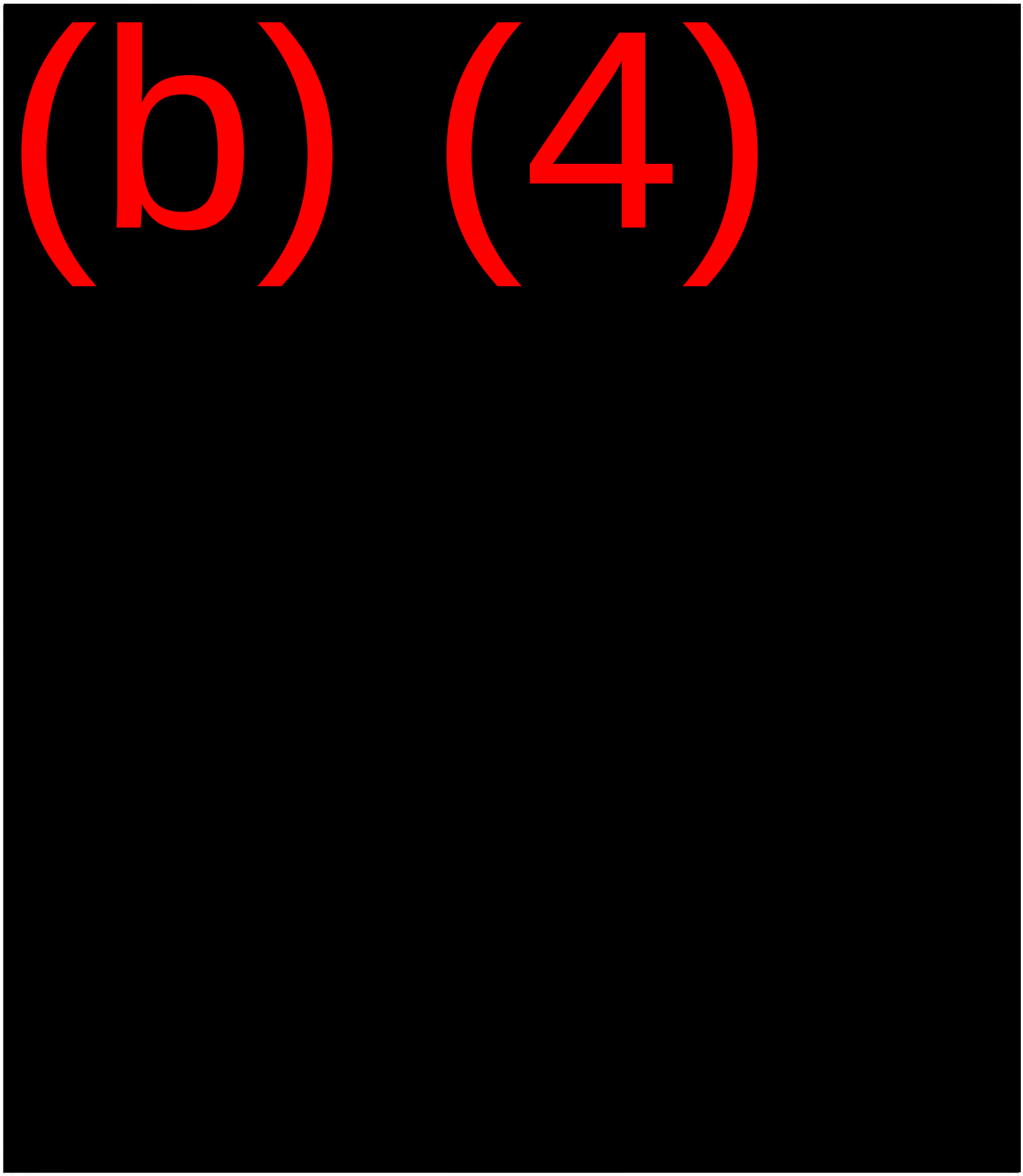
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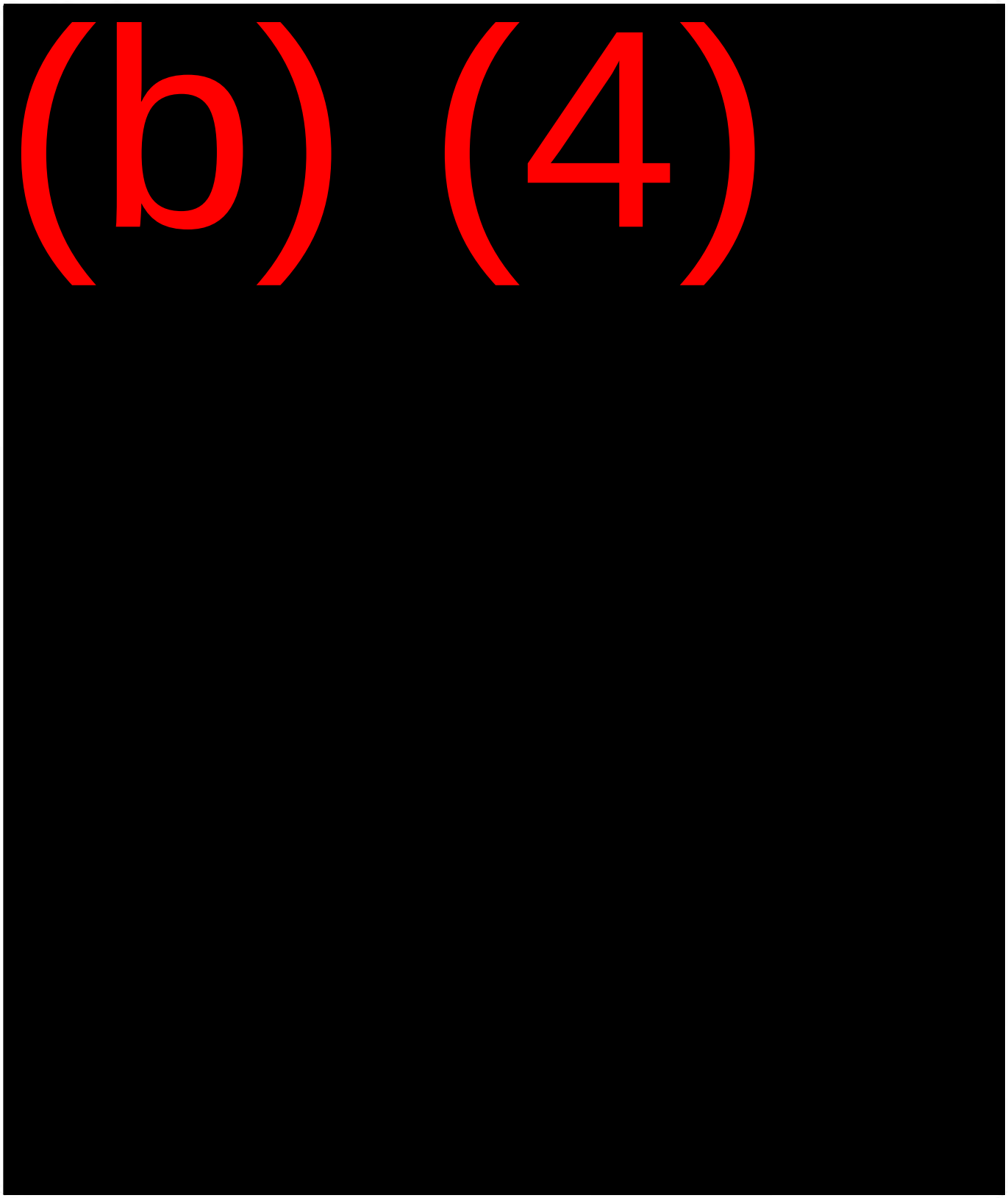
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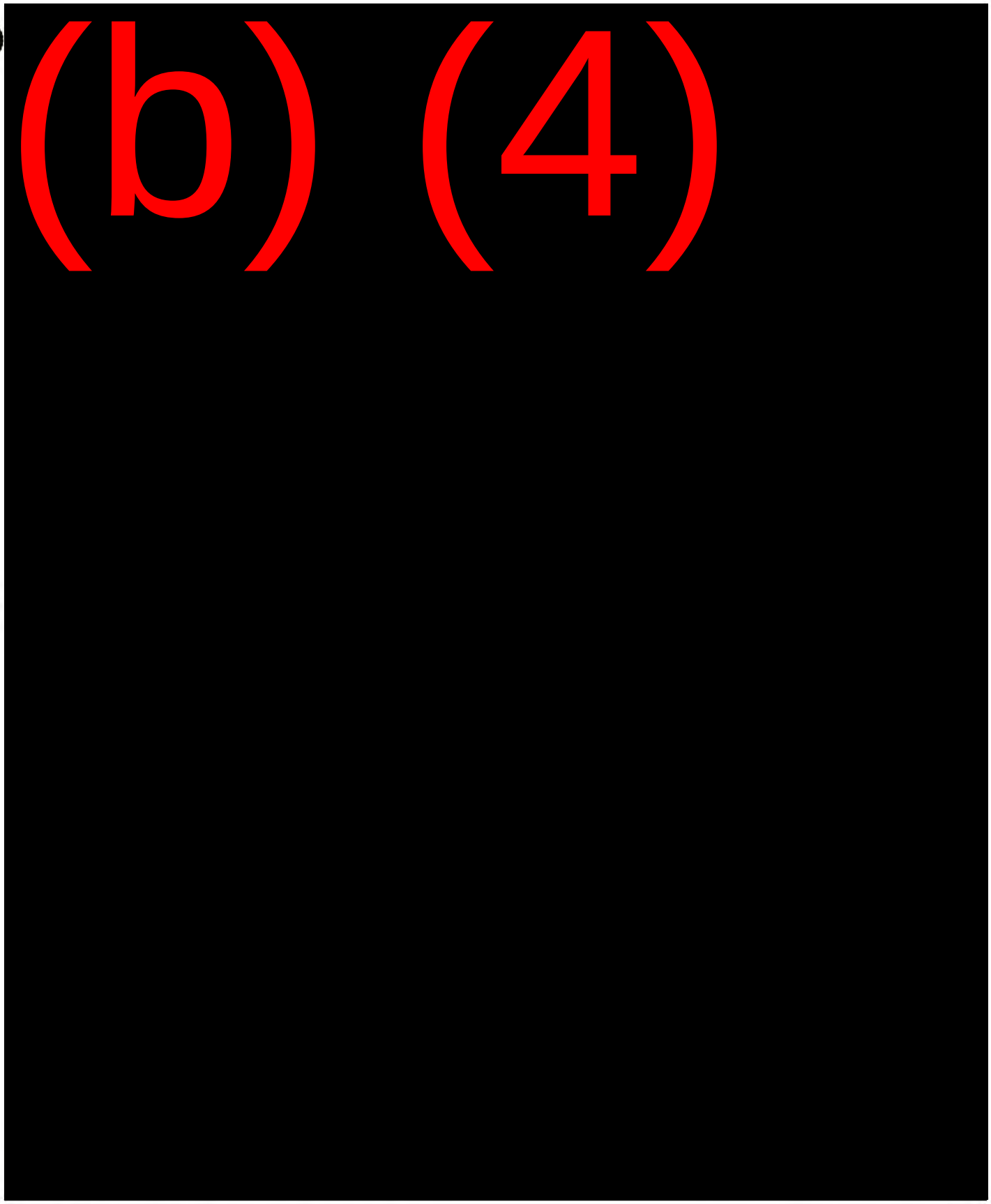
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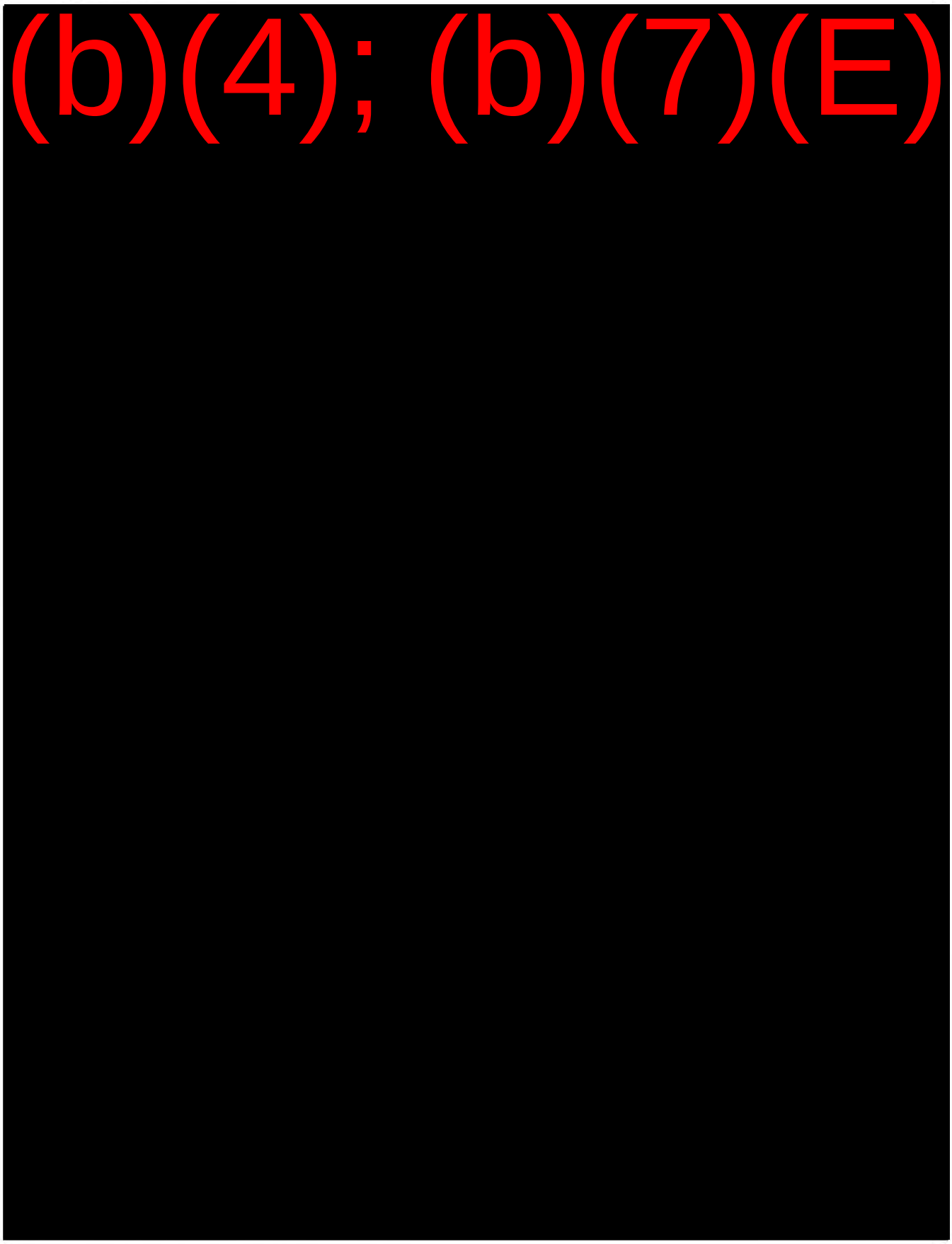
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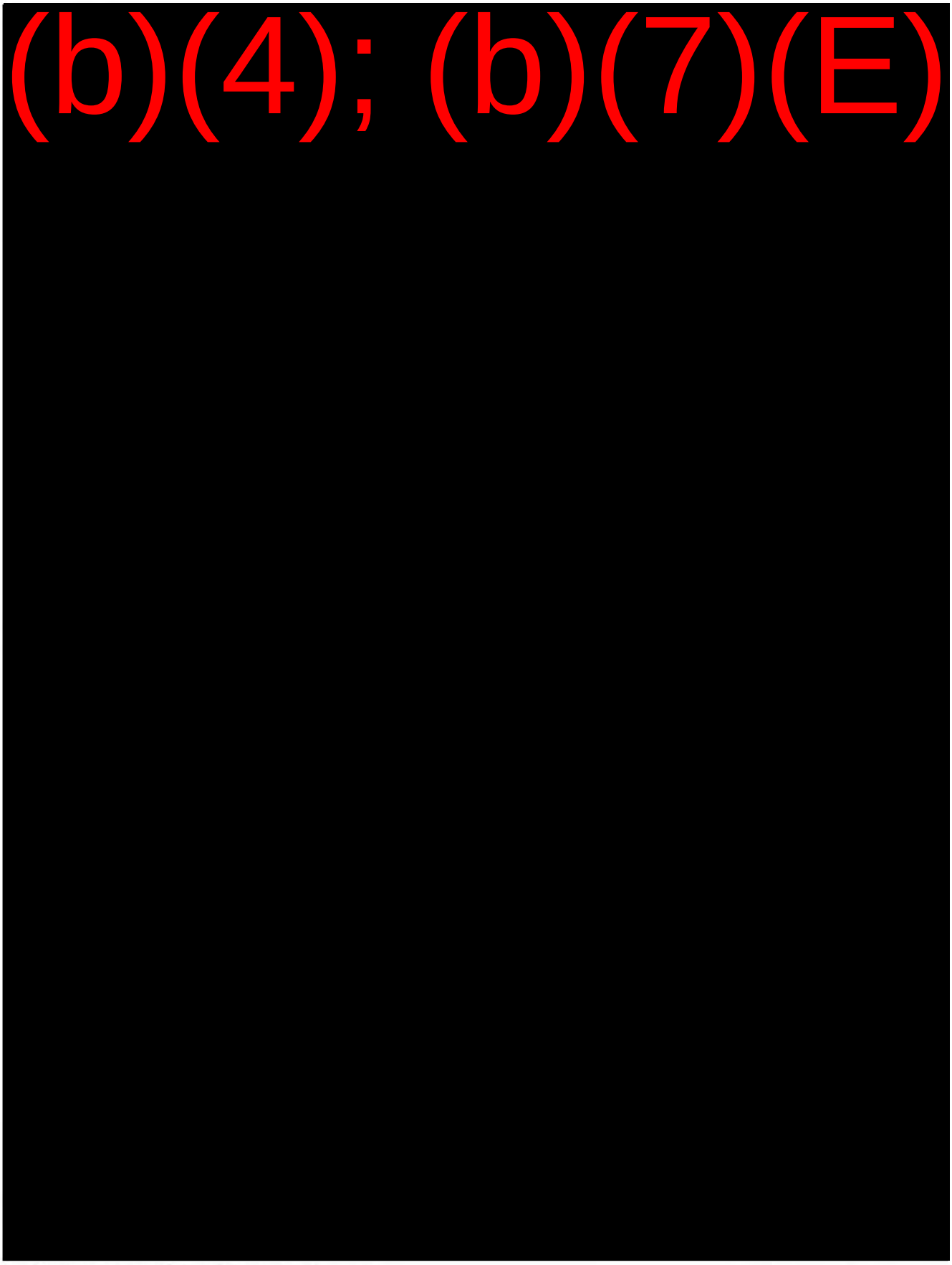
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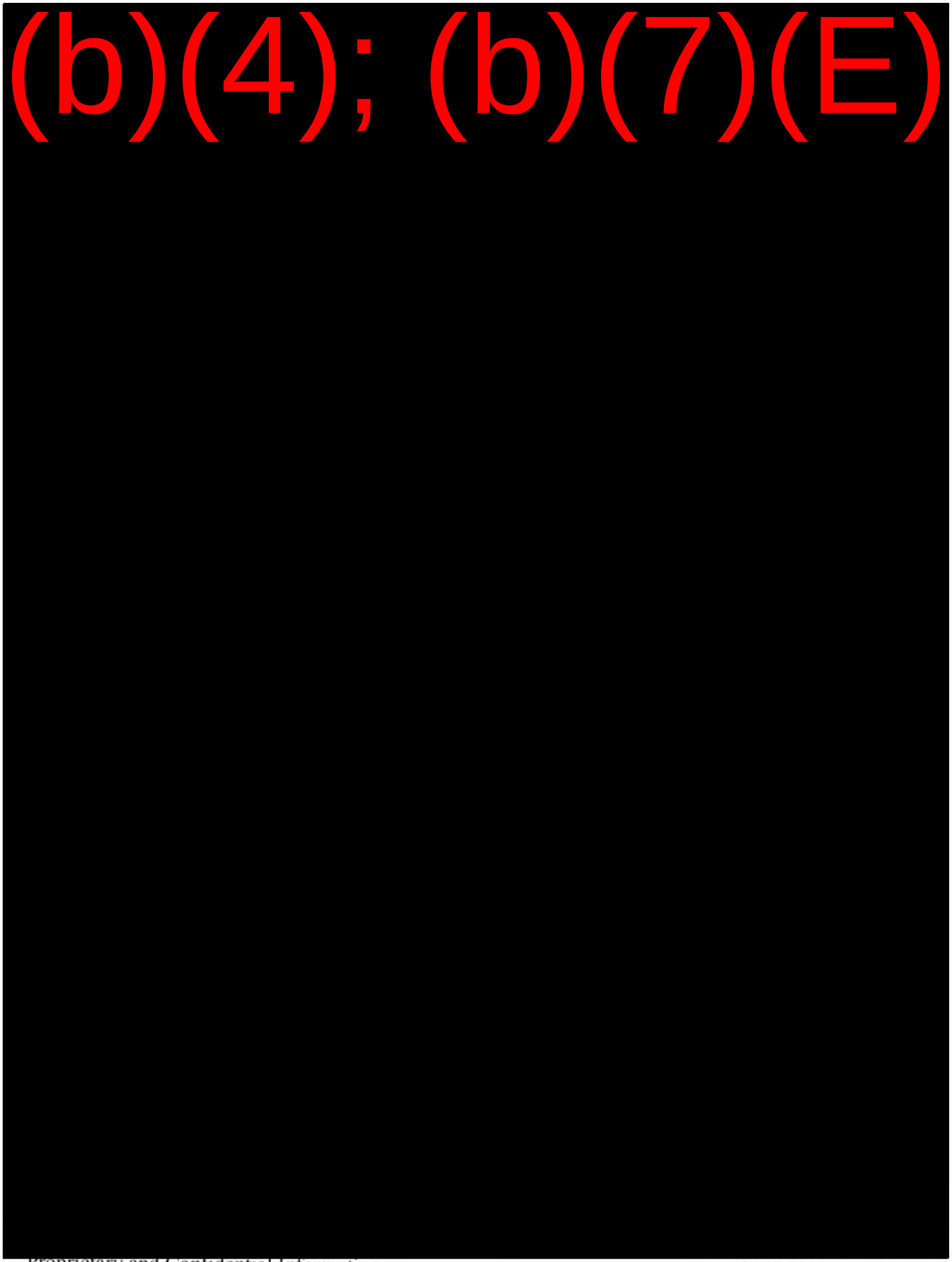
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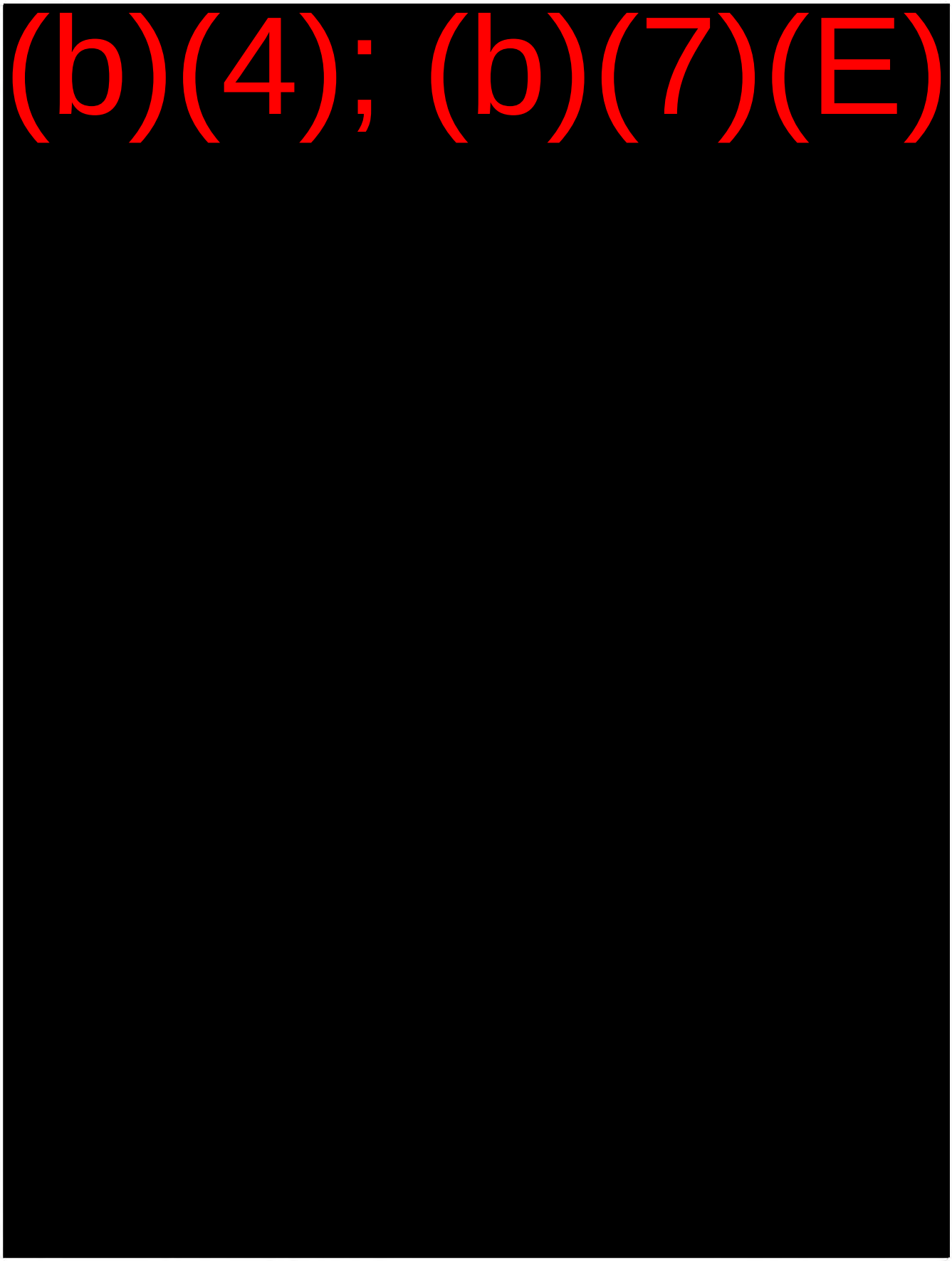
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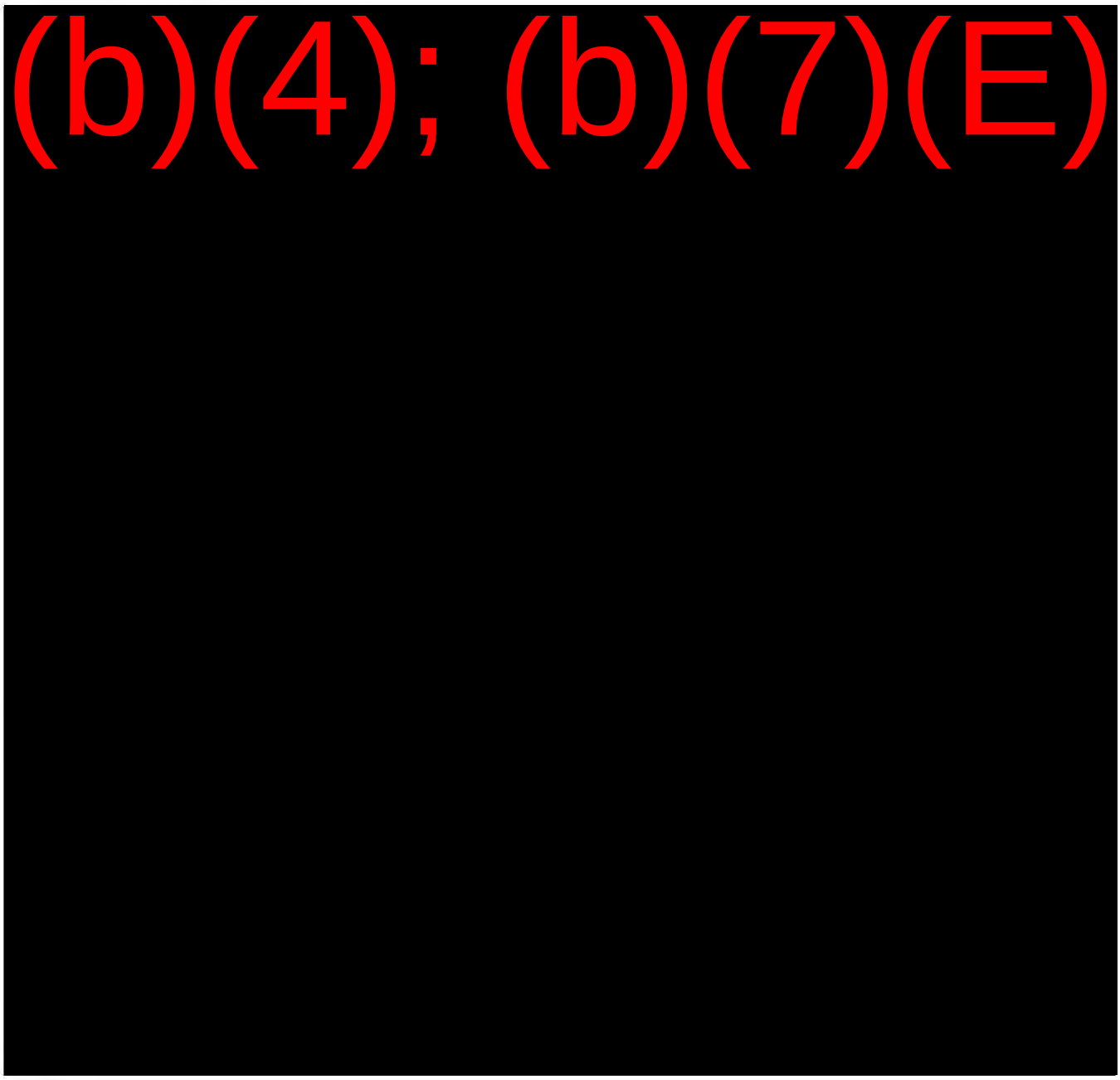

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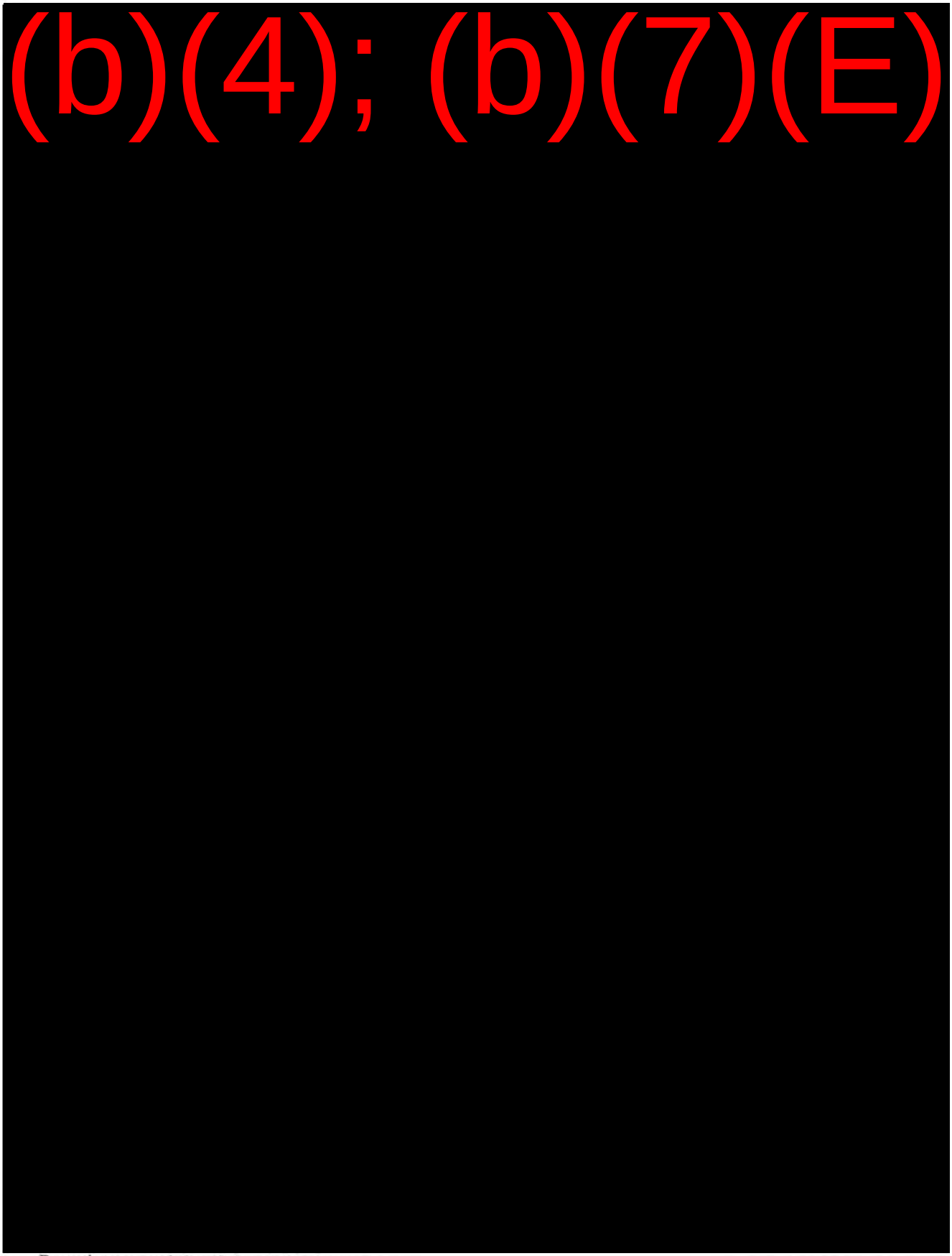
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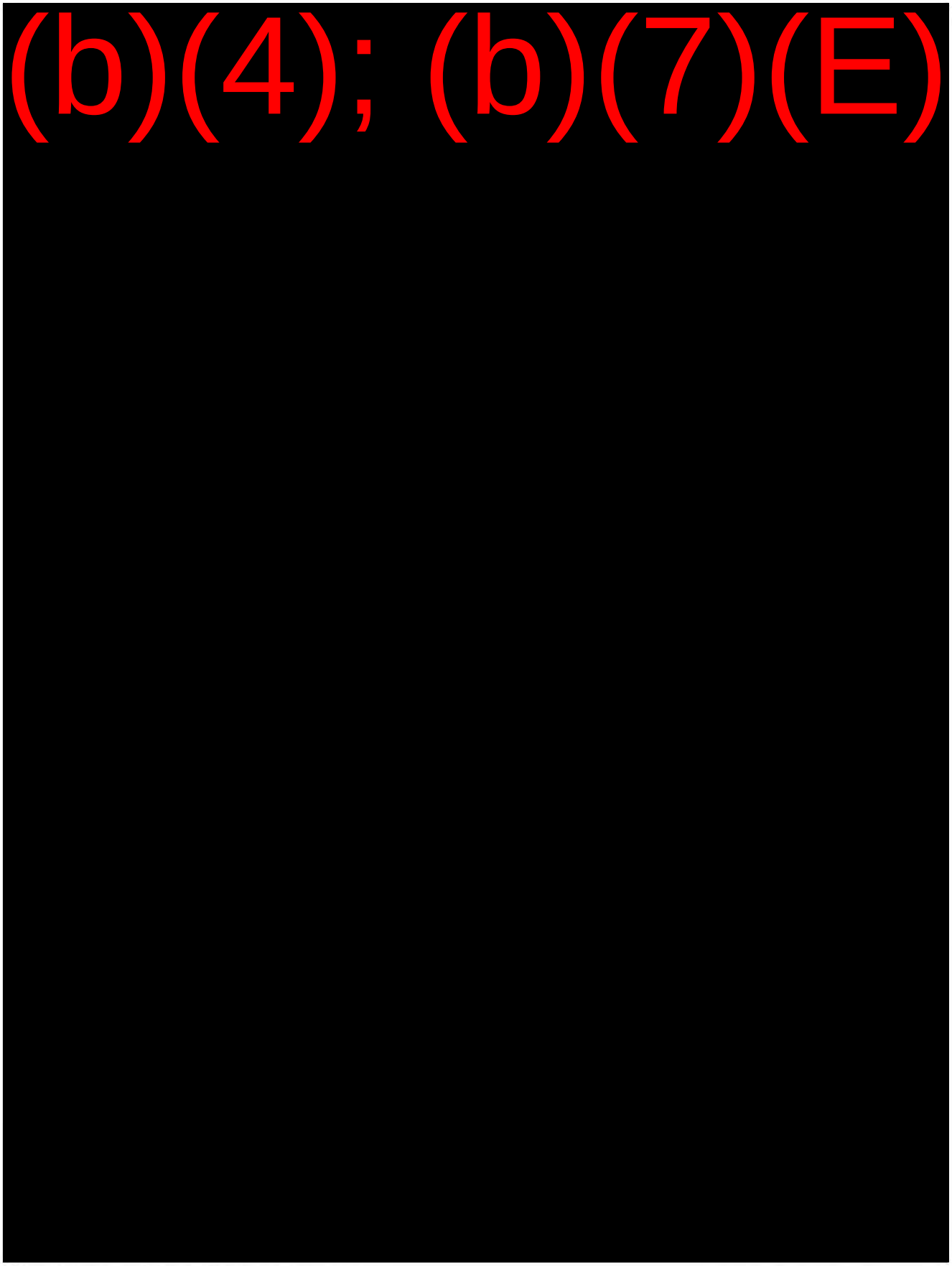
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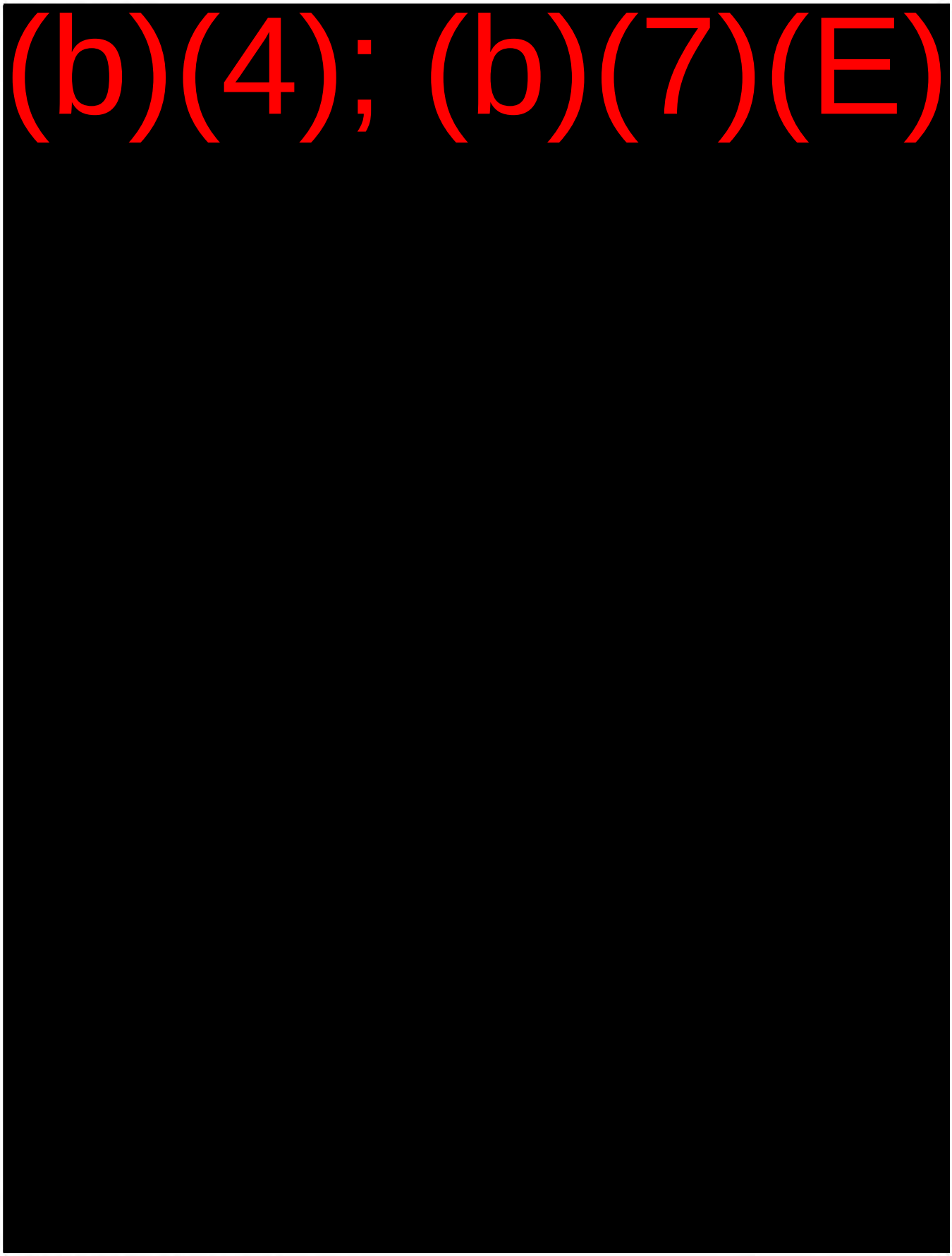
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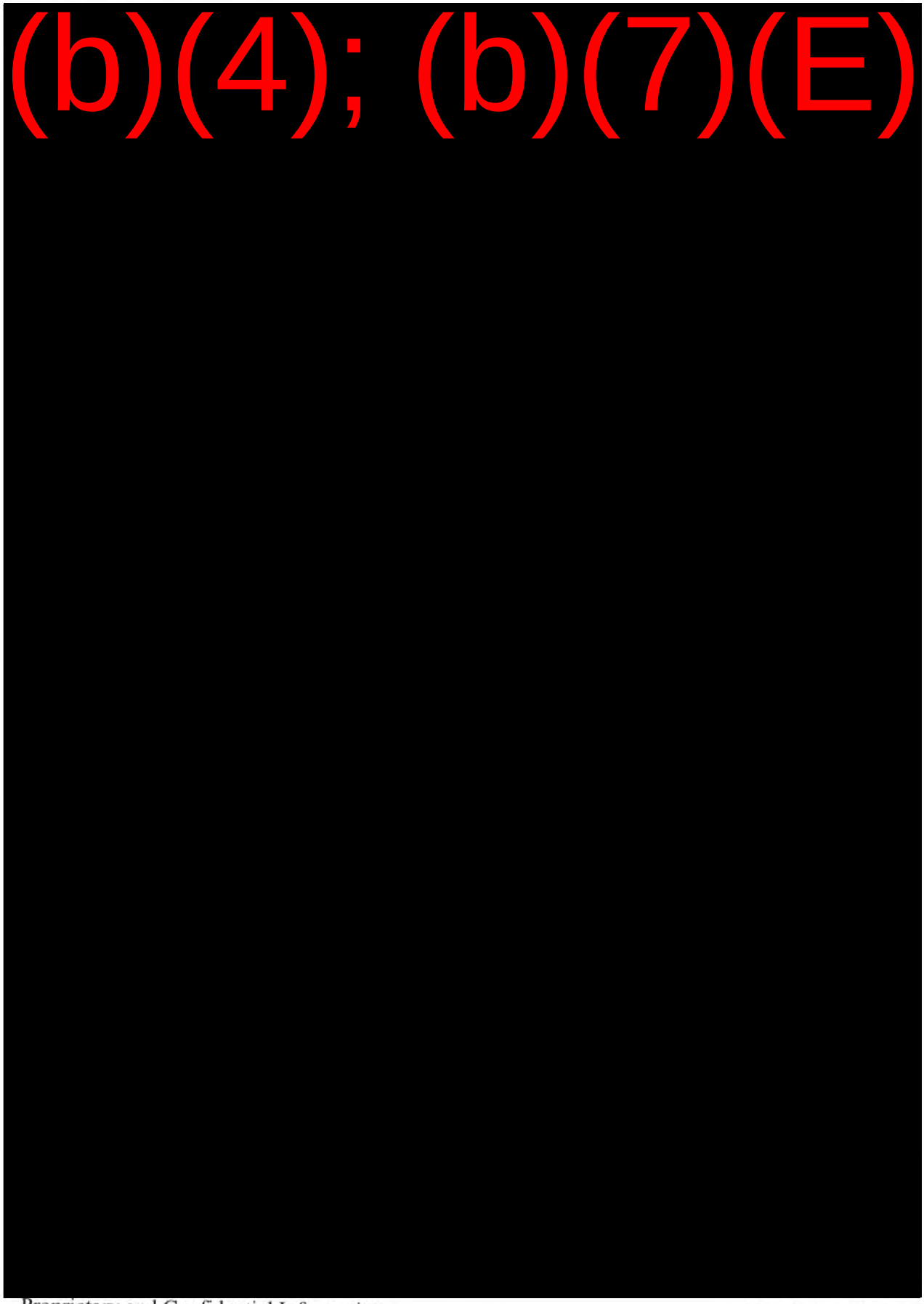
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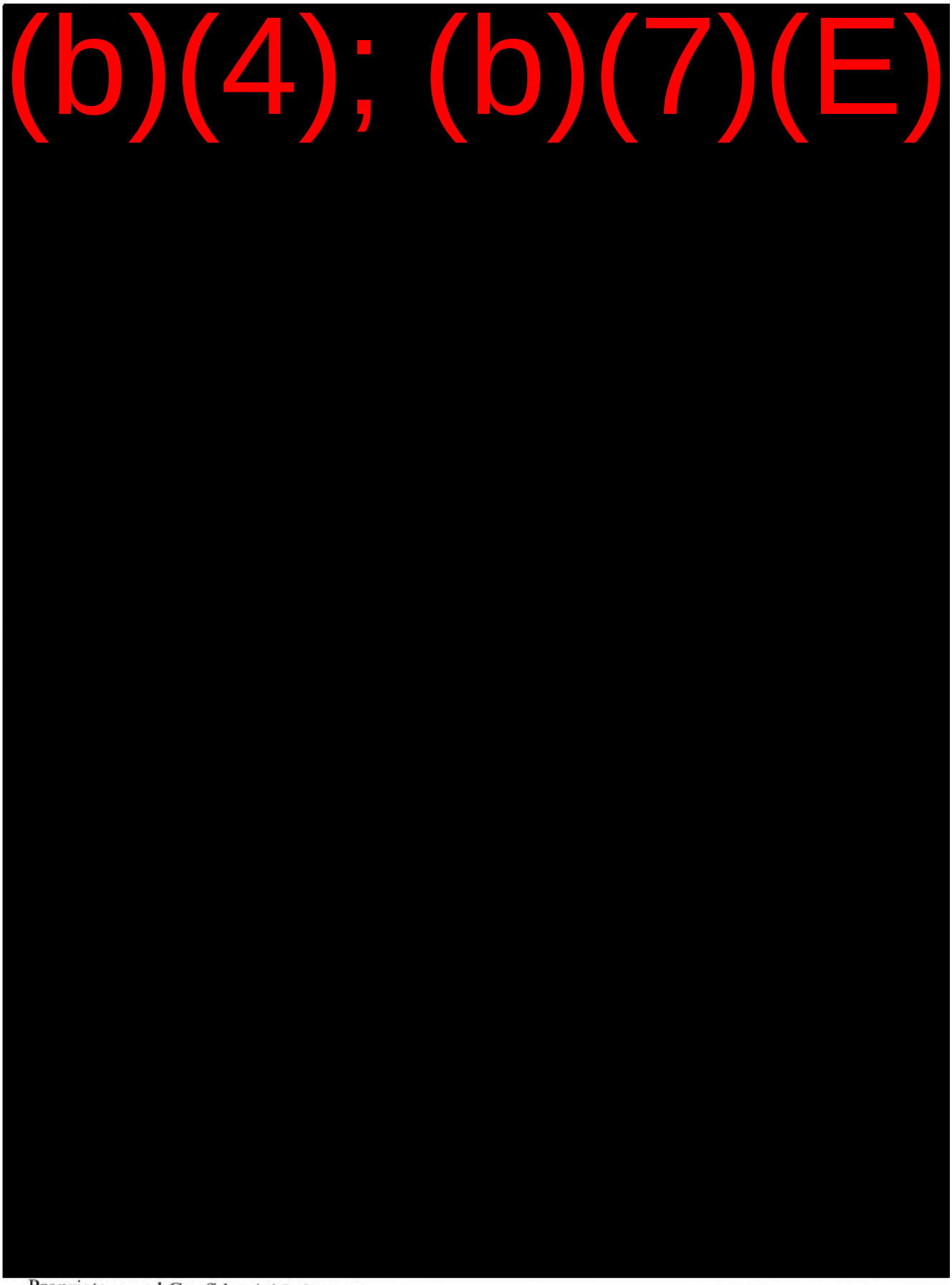
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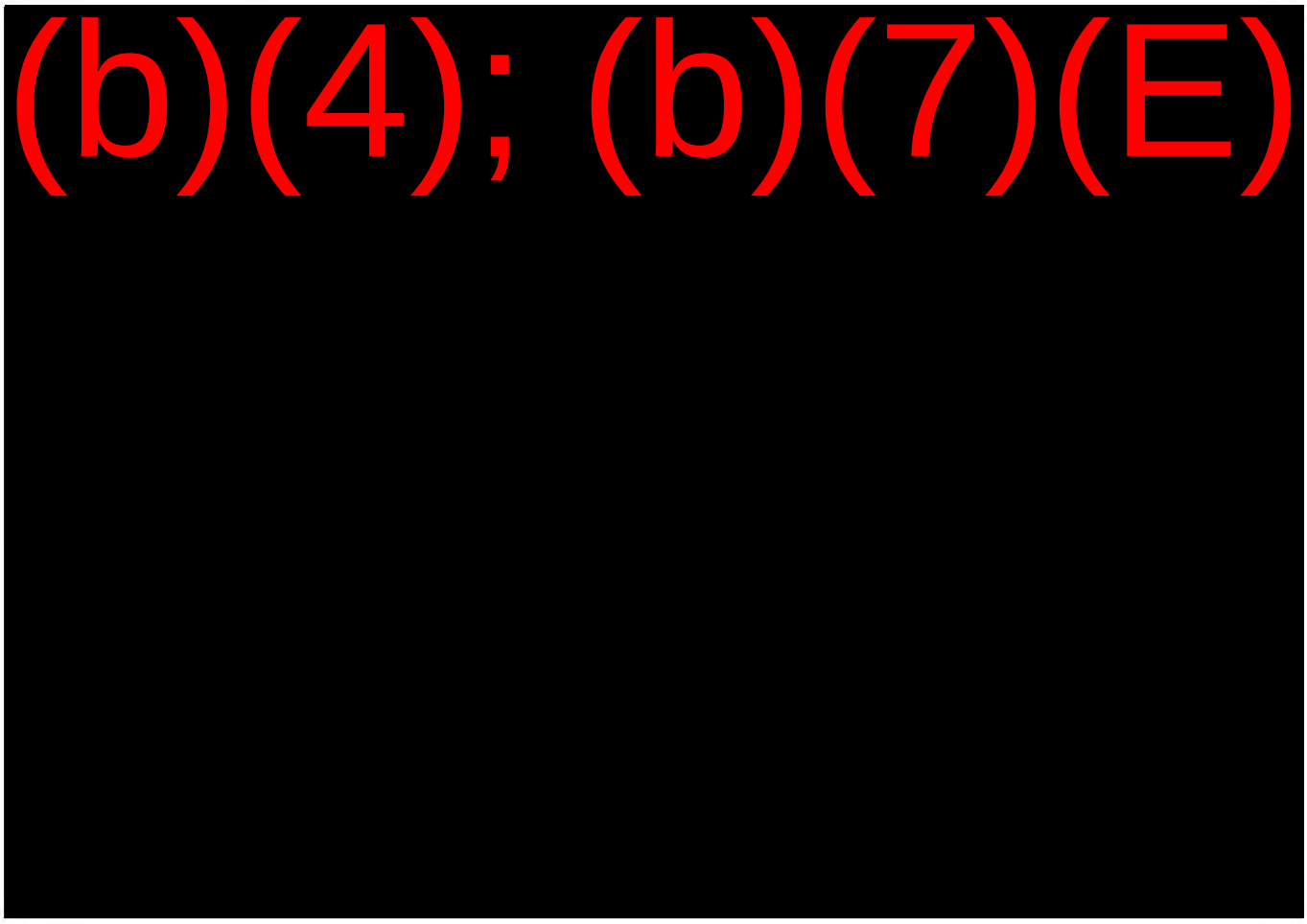
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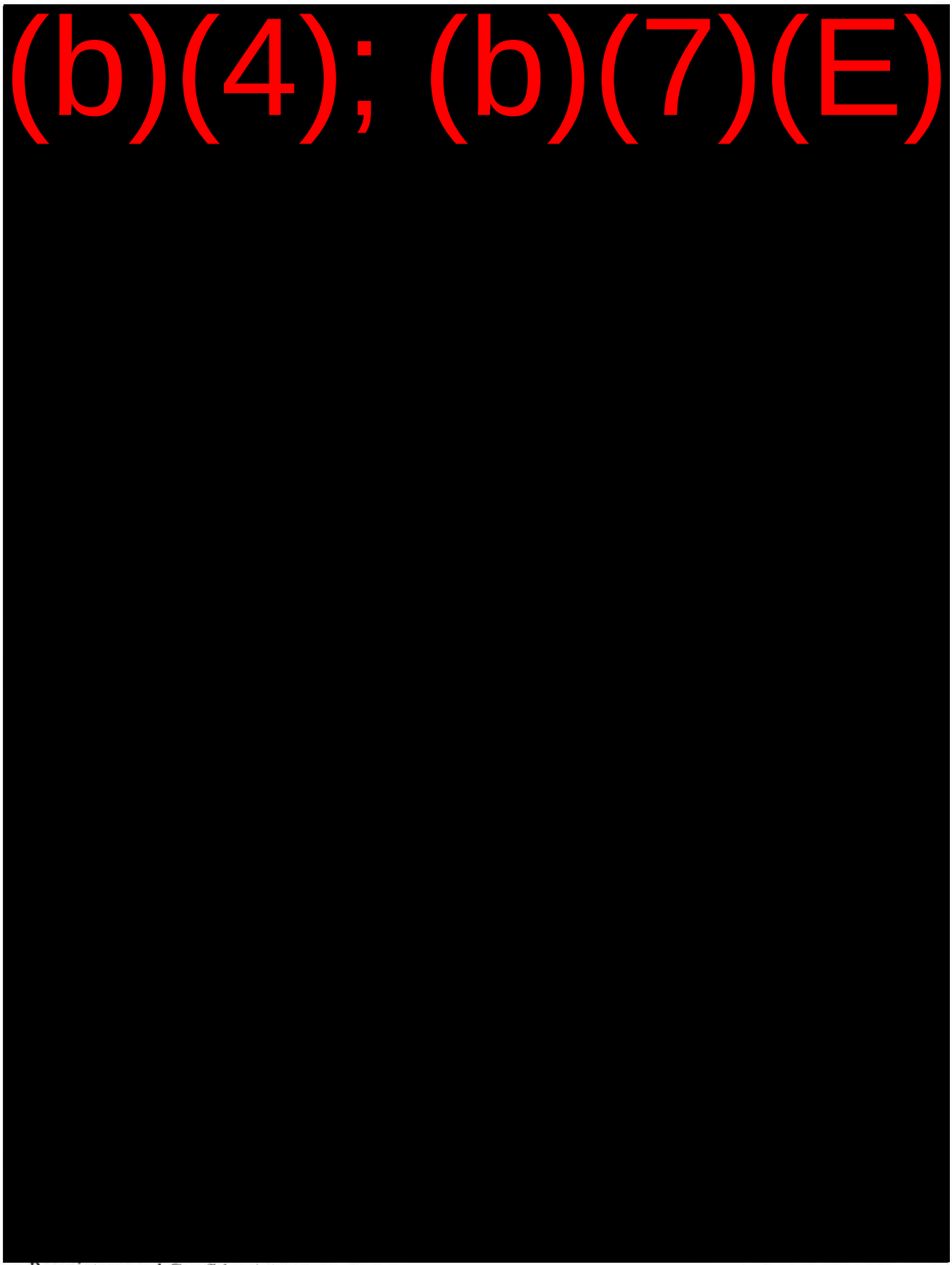
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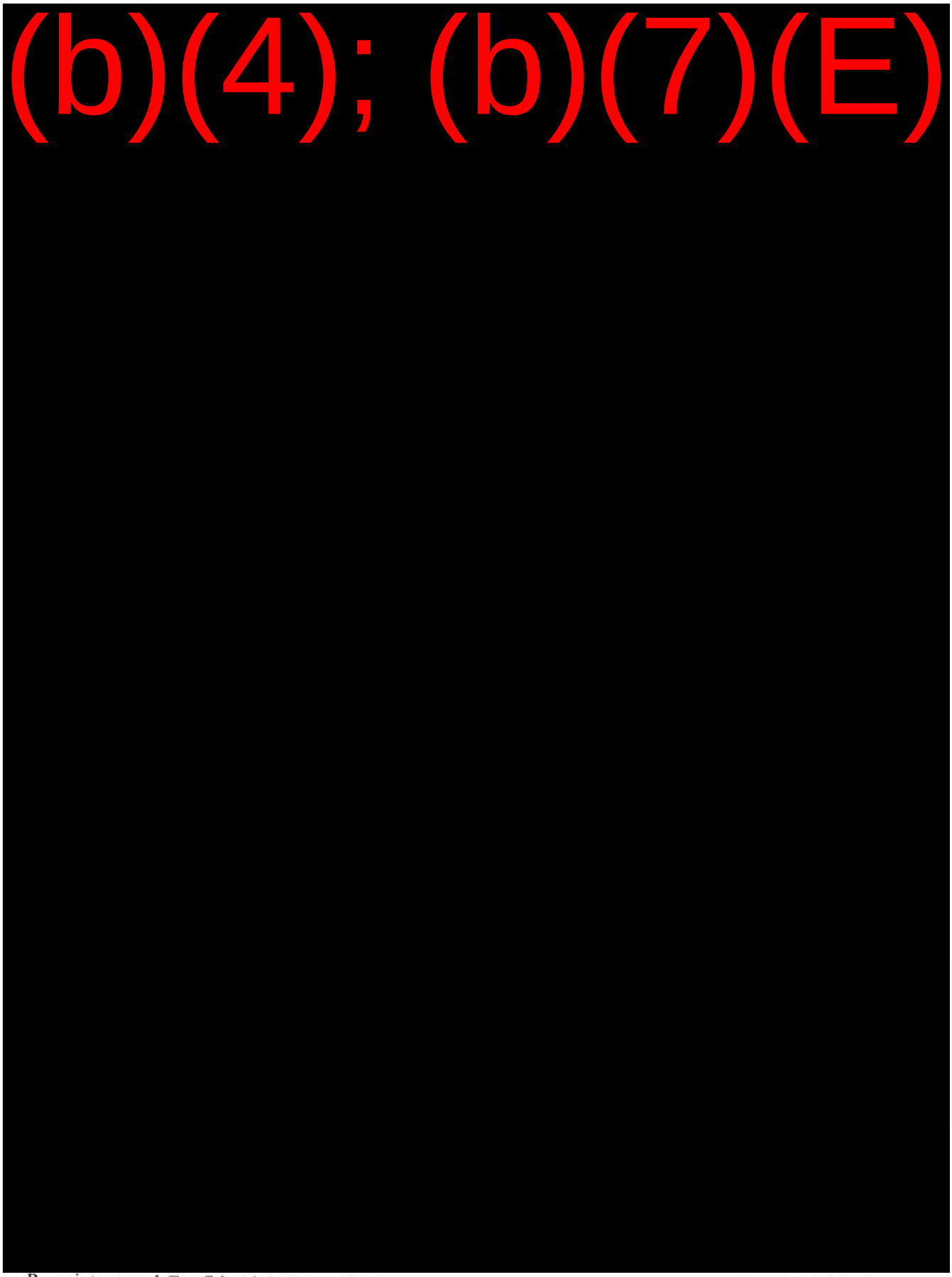
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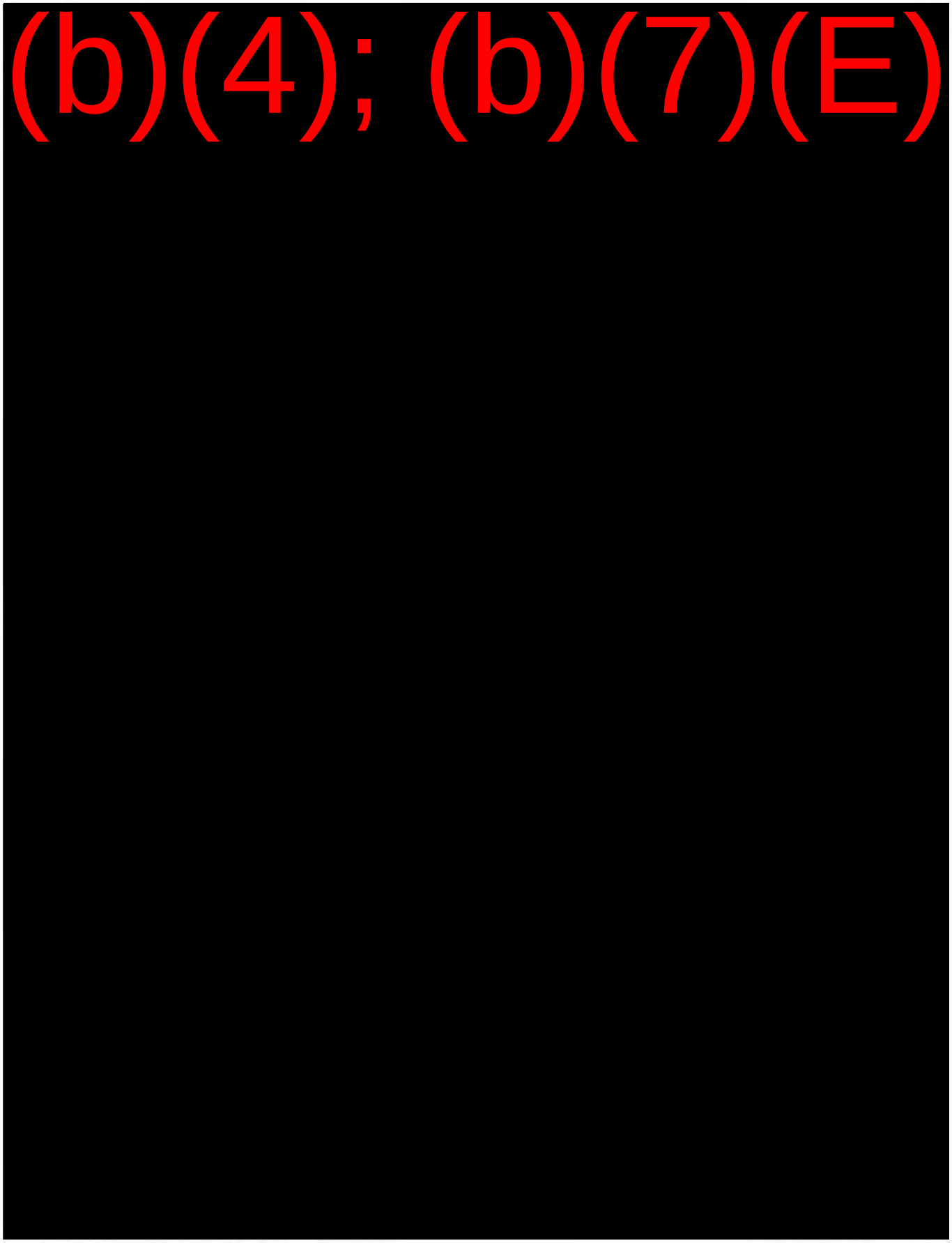
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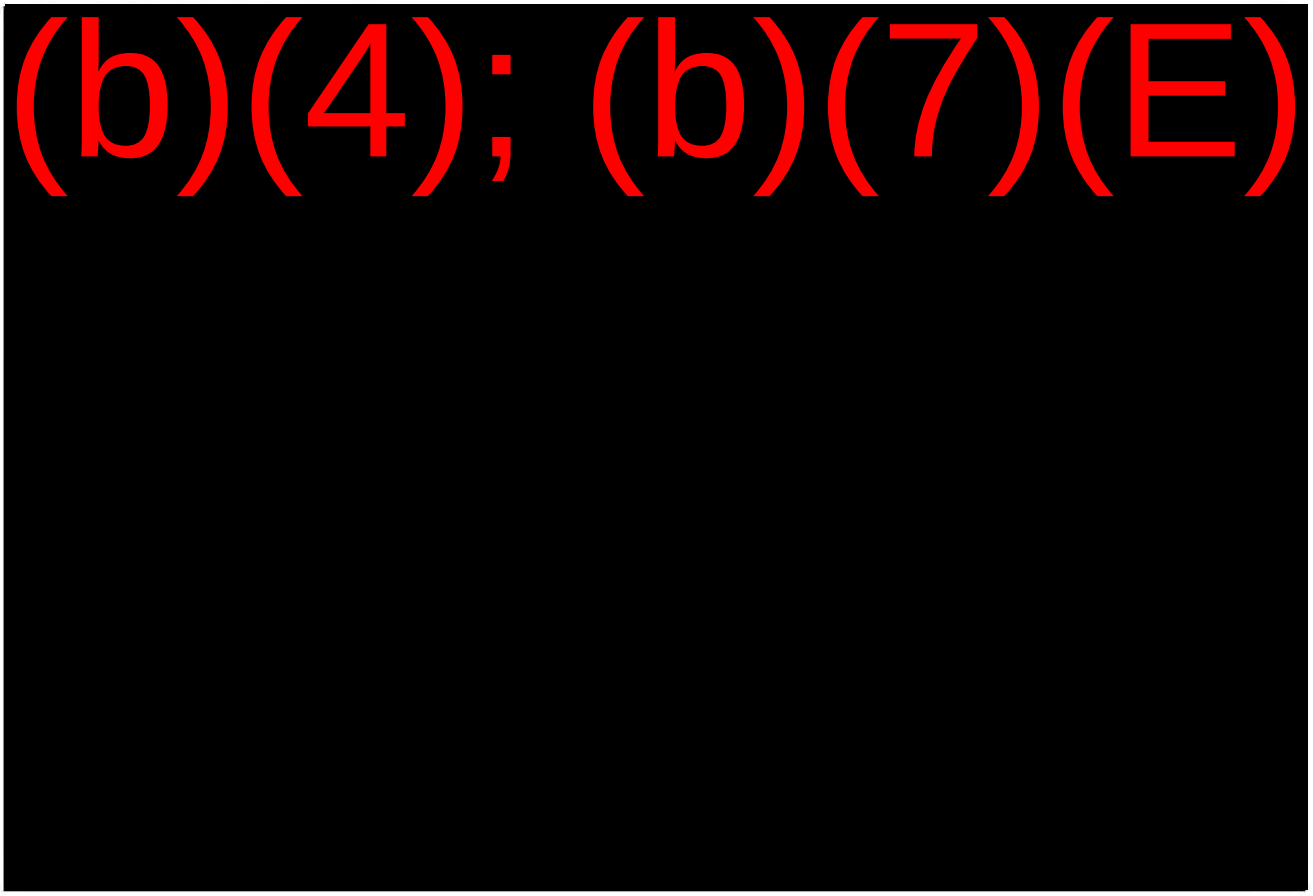
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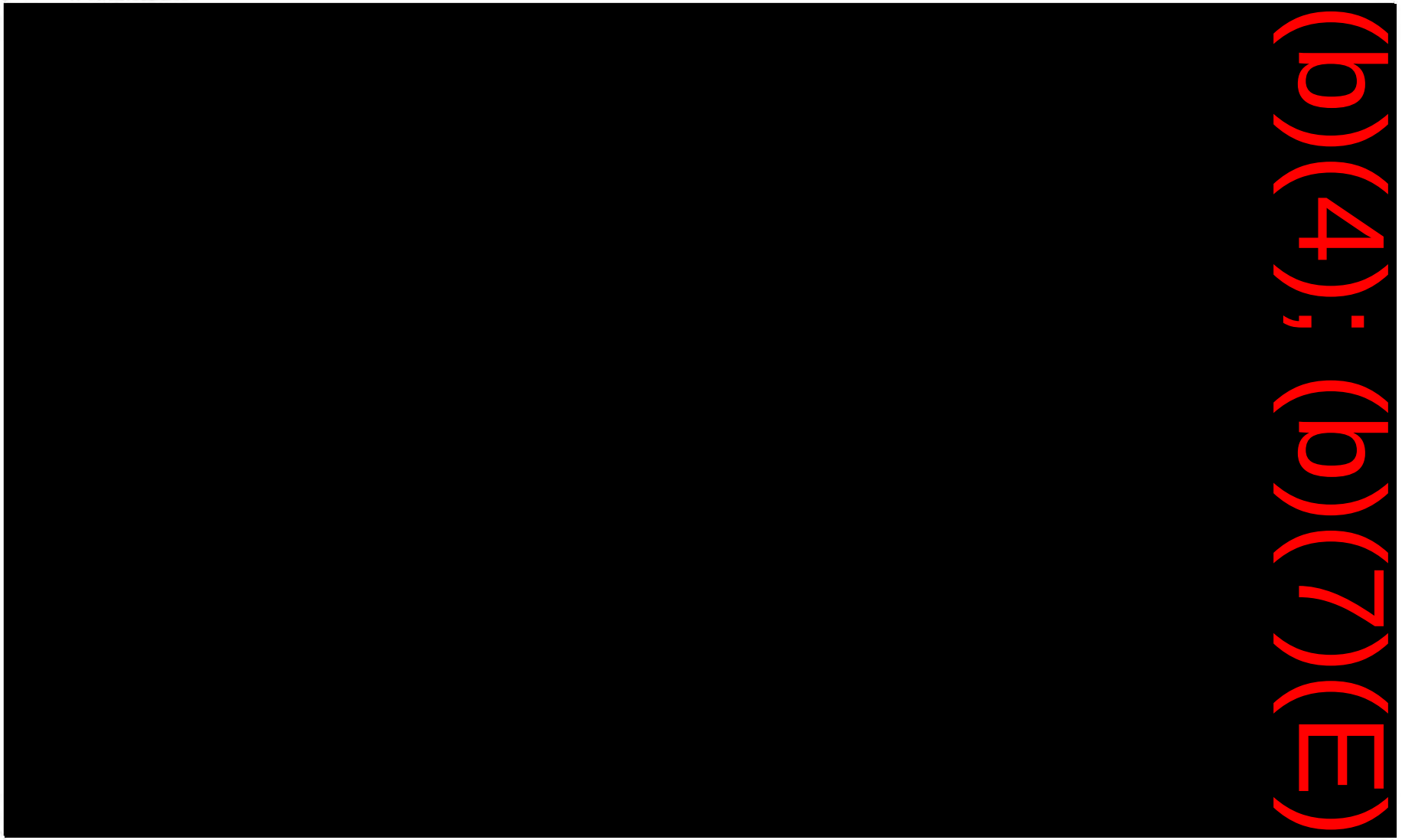
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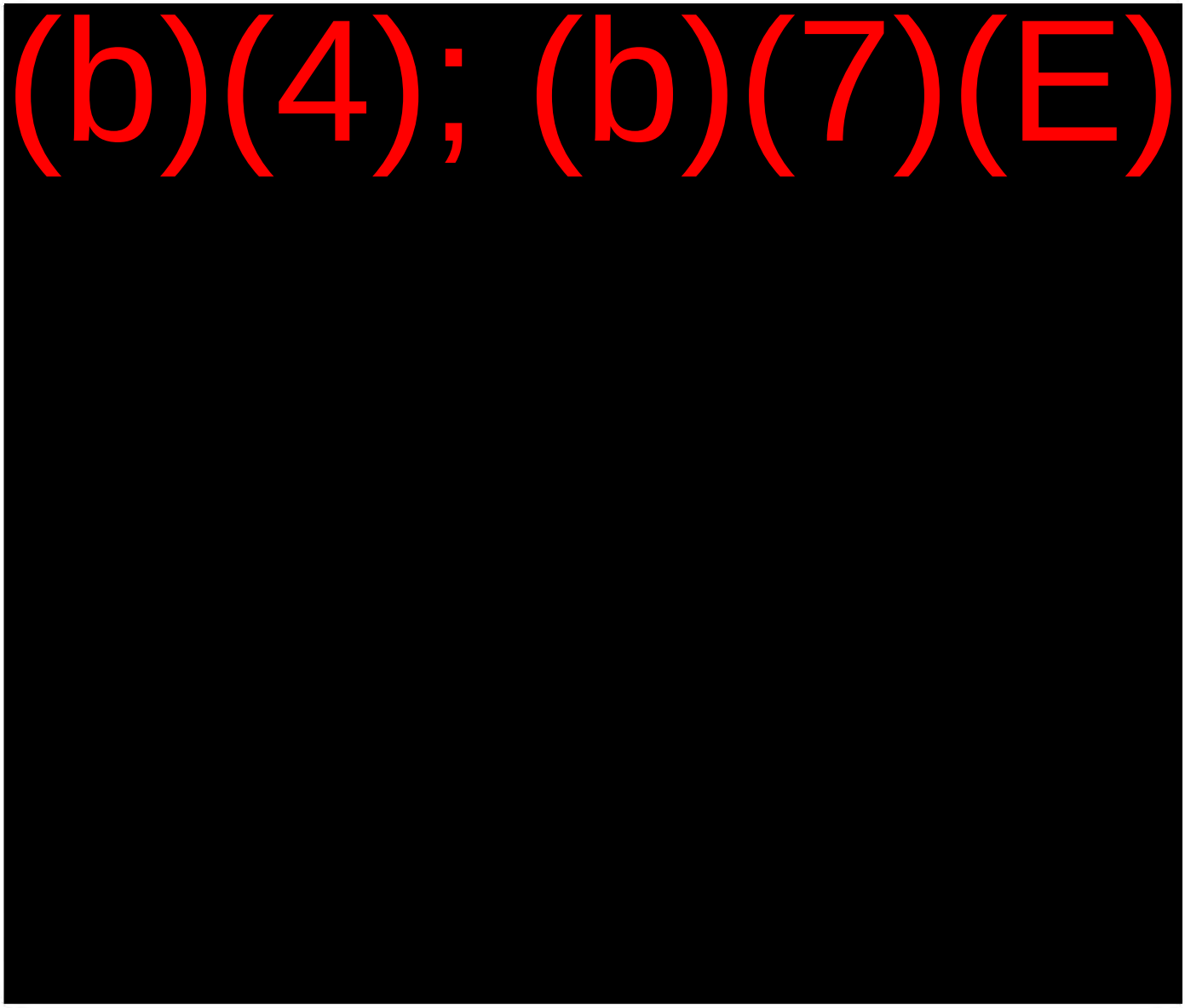
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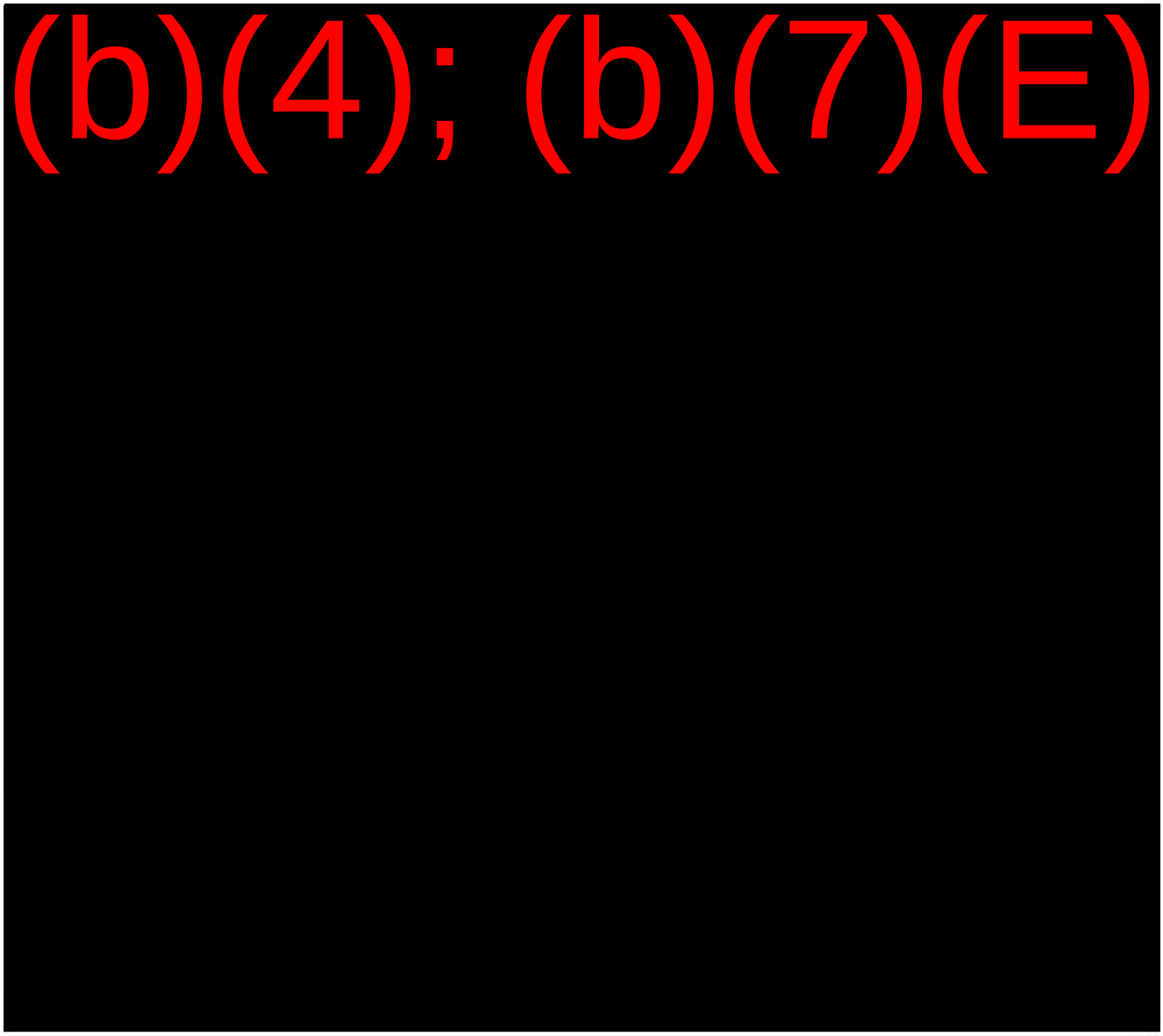
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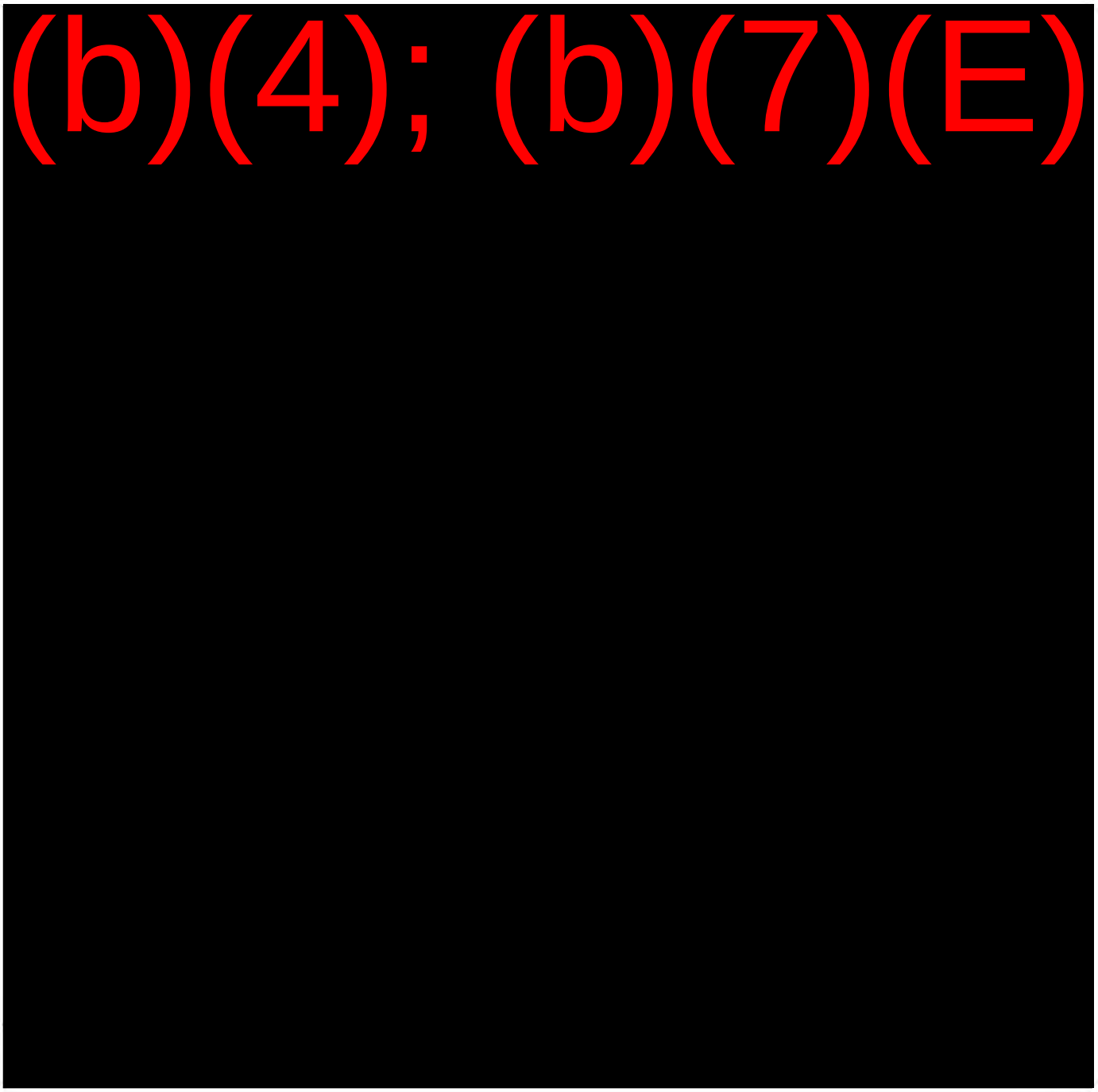
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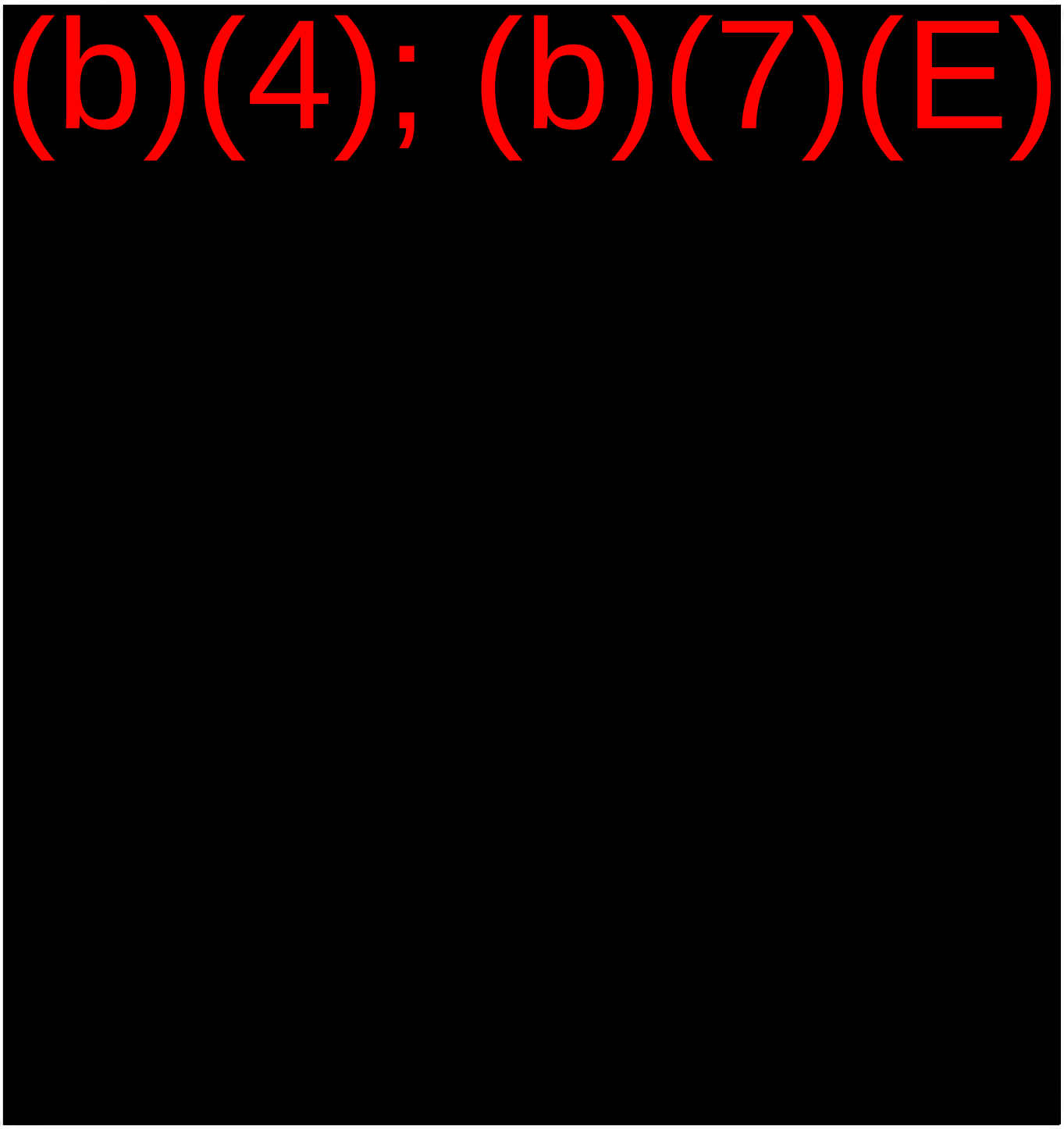
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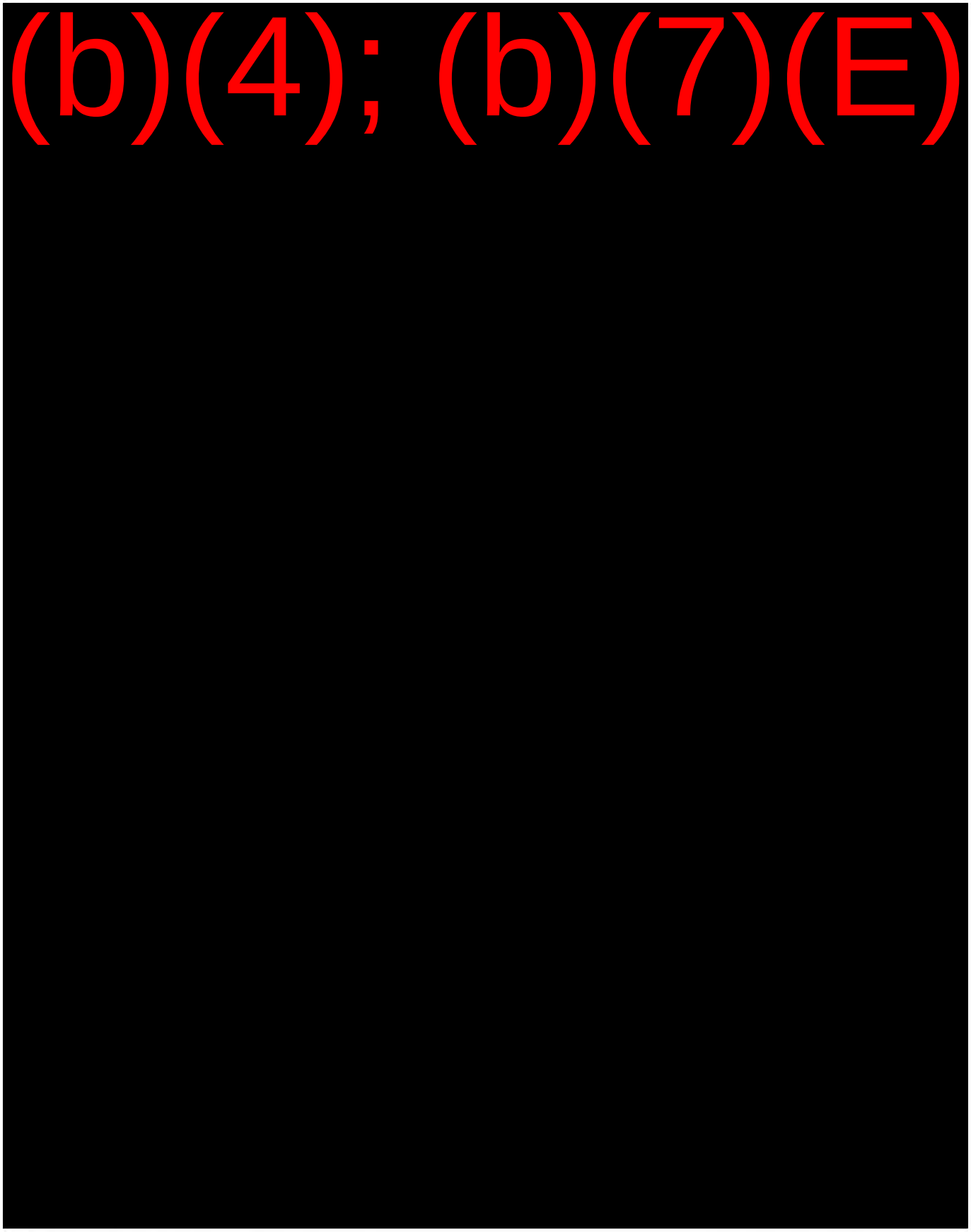
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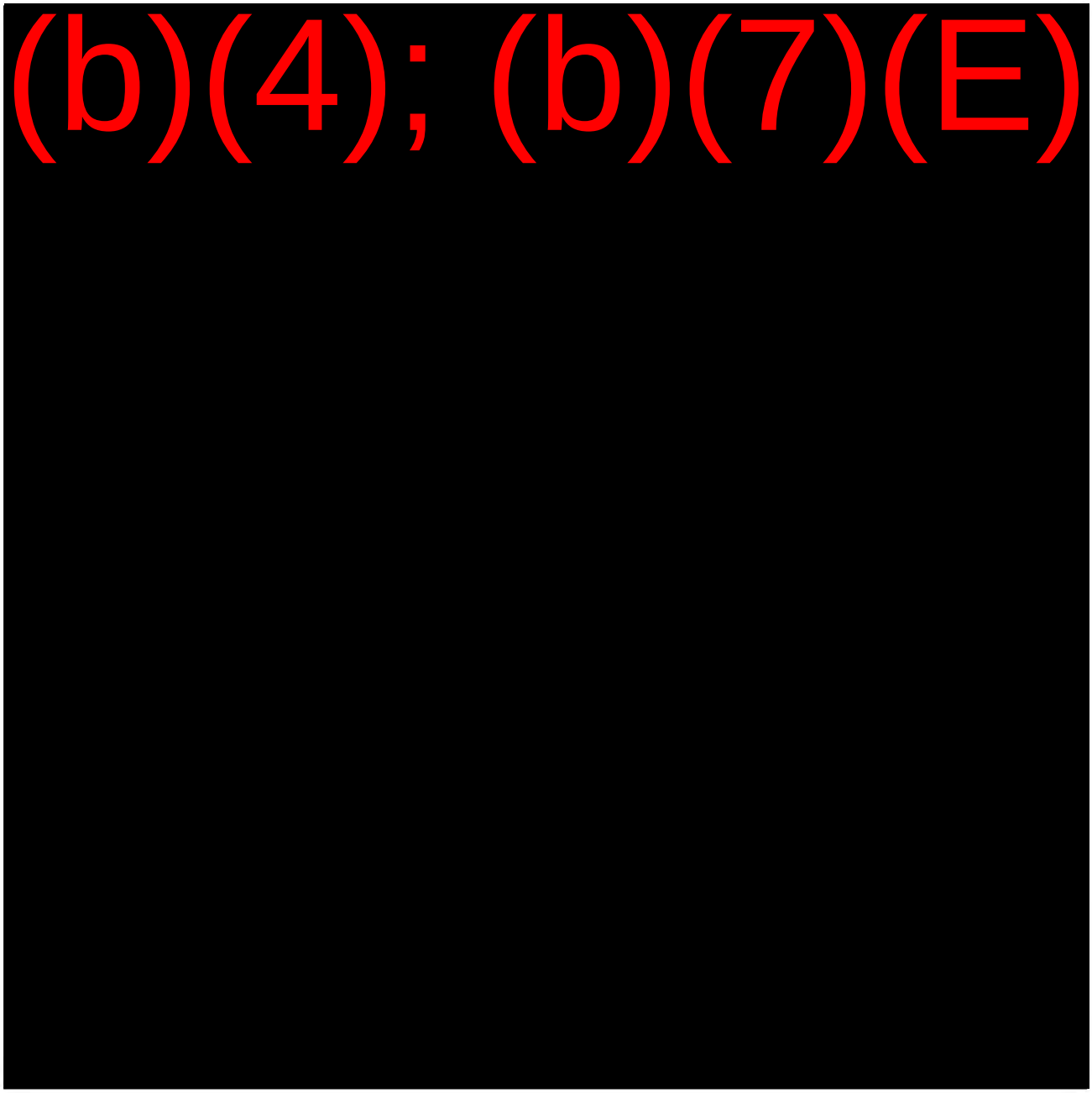
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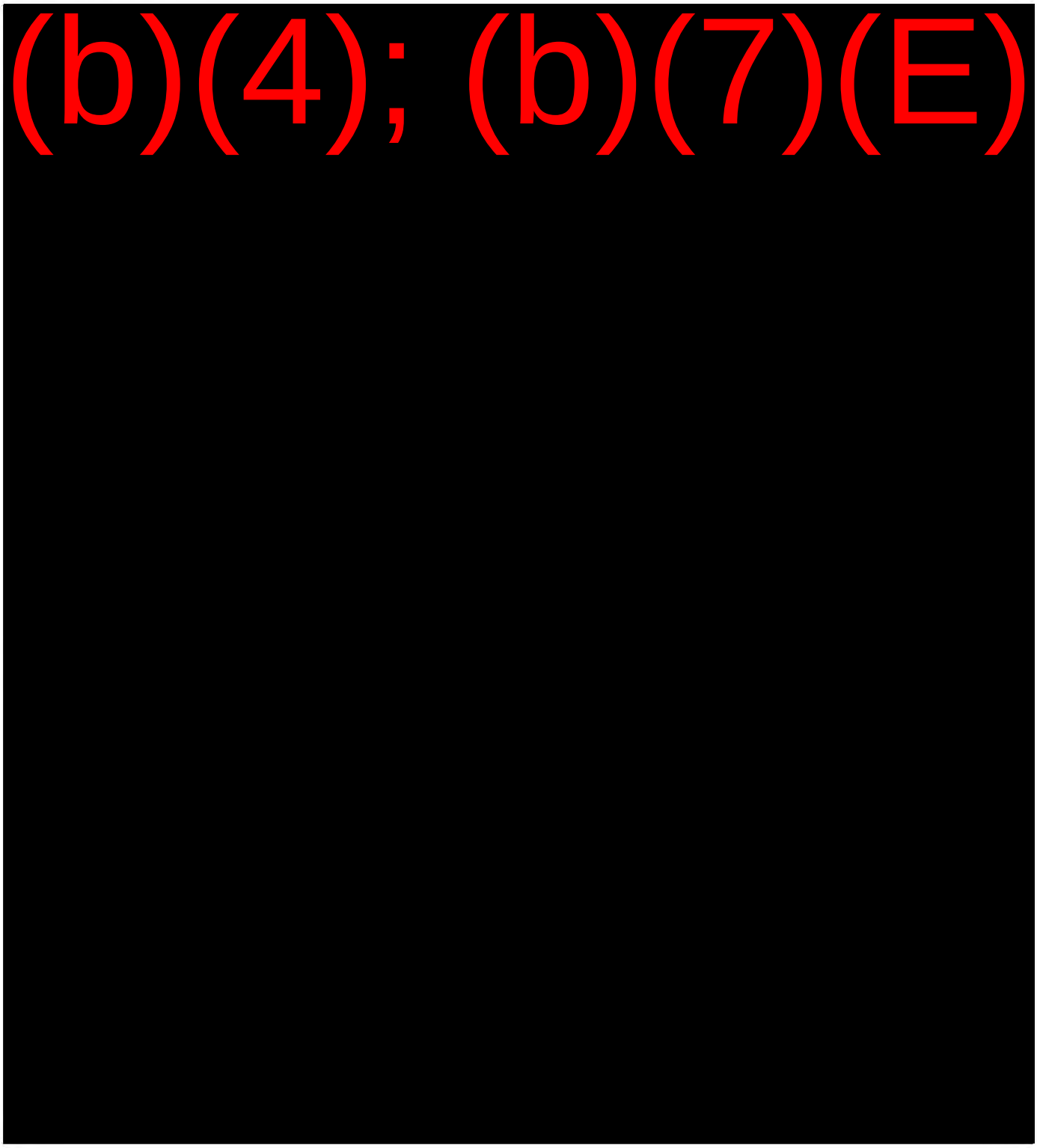
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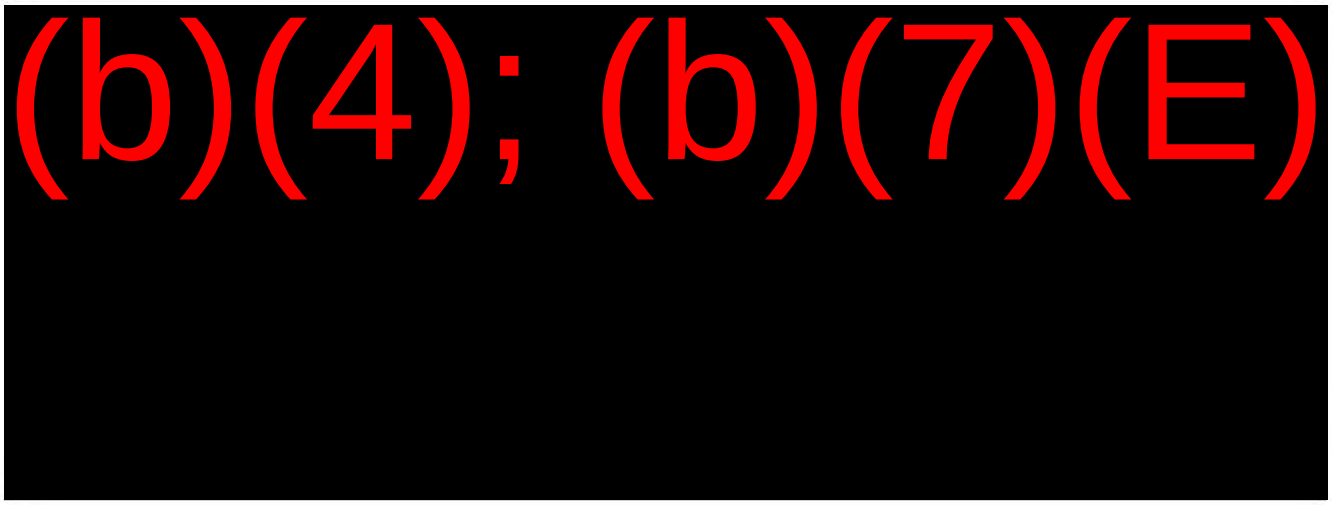


15.0 Additional Requirements

15.1 Non-Standard Items required as per Sales Order

(b)(4); (b)(7)(E)

16. GaRDS FINAL ACCEPTANCE TEST CERTIFICATE

GaRDS TYPE: _____

SERIAL NUMBER: _____

TRUCK TYPE: _____

VIN: _____

SOURCE TYPE: _____

SOURCE SERIAL NUMBER: _____

_____ _____

Rapiscan Quality Assurance **Date**

Appendix A
RAPISCAN SECURITY PRODUCTS, INC.

3232 W. El Segundo Blvd., Hawthorne California 90250

Burn-In Report for Cargo systems

24 hour minimum cycle time required. Burn-In shall consist of keeping system including computer (except source) ON for 24 hours. Time used for normal test process may be included with actual cycle testing (example: 3.5 hours maximum to align detectors may be taken off cycle time requirement of 24 hours and reduced to 20.5 hours). The unit shall be cycled at least 5 times before start of Burn-in and 5 times at the end of Burn-In.

Model Number_____

System Serial Number: _____

Start Date: _____ **End Date:** _____

Start Time in: _____ **AM/PM** **End Time:** _____**AM/PM**

Total Number of hours in cycle: _____

Tested at (Circle One): 110V/60Hz 220V/50Hz

Burn-in pass: (M & T Initials)_____

GaRDS 4200 Truck Weight Form(Appendix B)

Front Tires			
Left Hand Side =	**LBS.**		
Right Hand Side =	**LBS.**		
Rear Tires			
Left Hand Outer Tire = LBS.	**LBS.**	**Right Hand Outer Tire =**	
Left Hand Inner Tire = LBS.	**LBS.**	**Right Hand Inner Tire =**	
Total Truck Weight =		**LBS.**	

Front

Left Hand Side	Right Hand Side

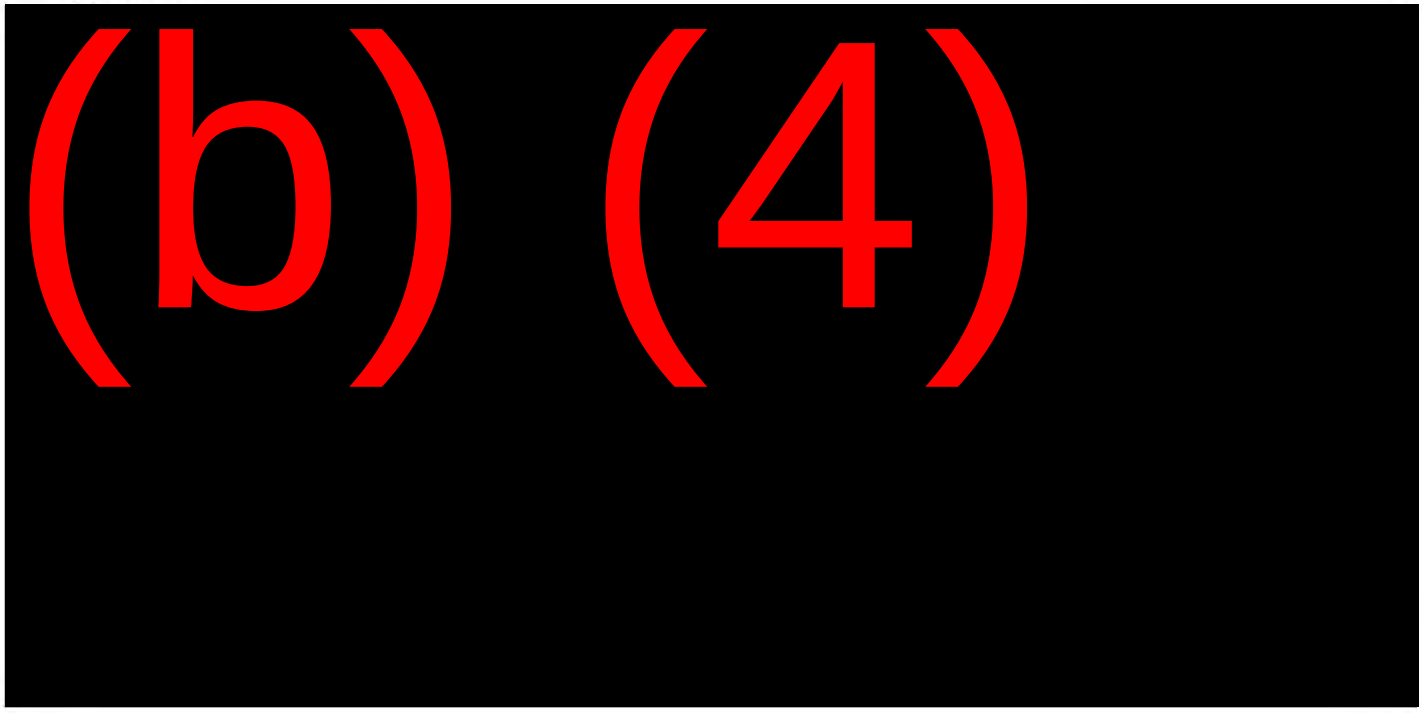
Left Rear Outer Tire	Left Rear Inner Tire	Right Rear Inner Tire	Right Rear Outer Tire

Rear

Model Number_____

System Serial Number: _____

Eagle®
Acceptance Test Plan


(b) (4)

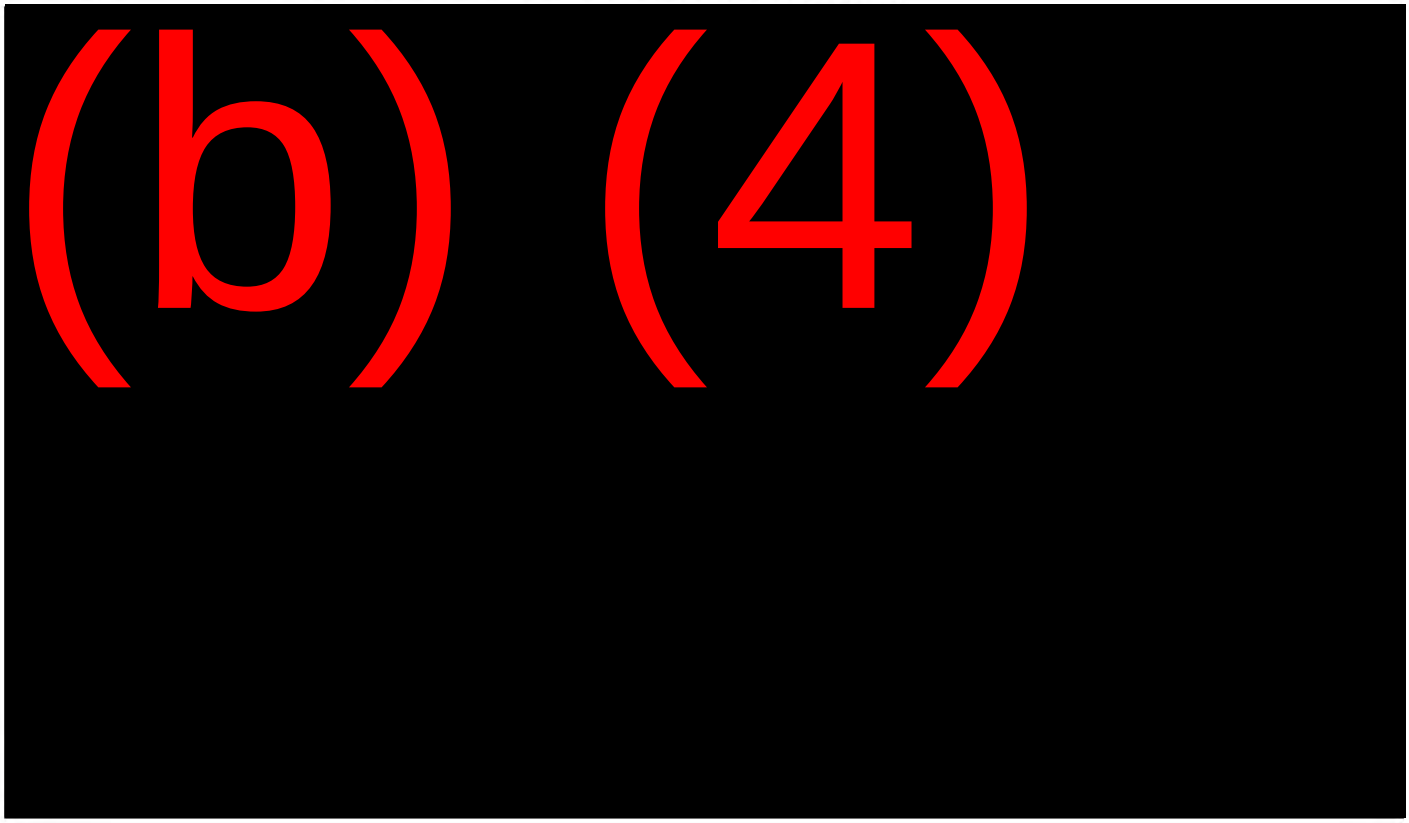
1.0 INTRODUCTION

(b) (4)

2.0 ACCEPTANCE TEST PLAN

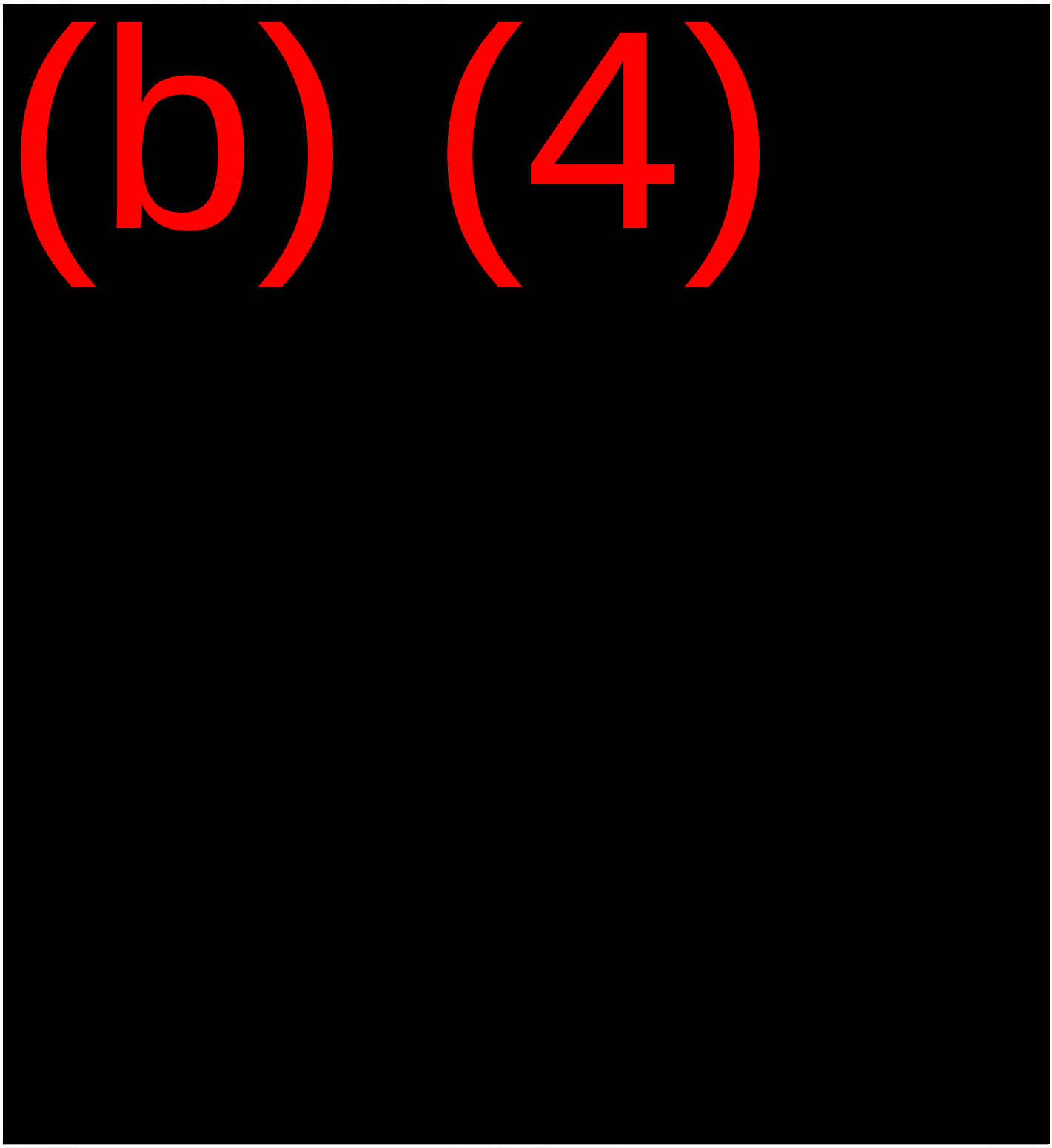
(b) (4)

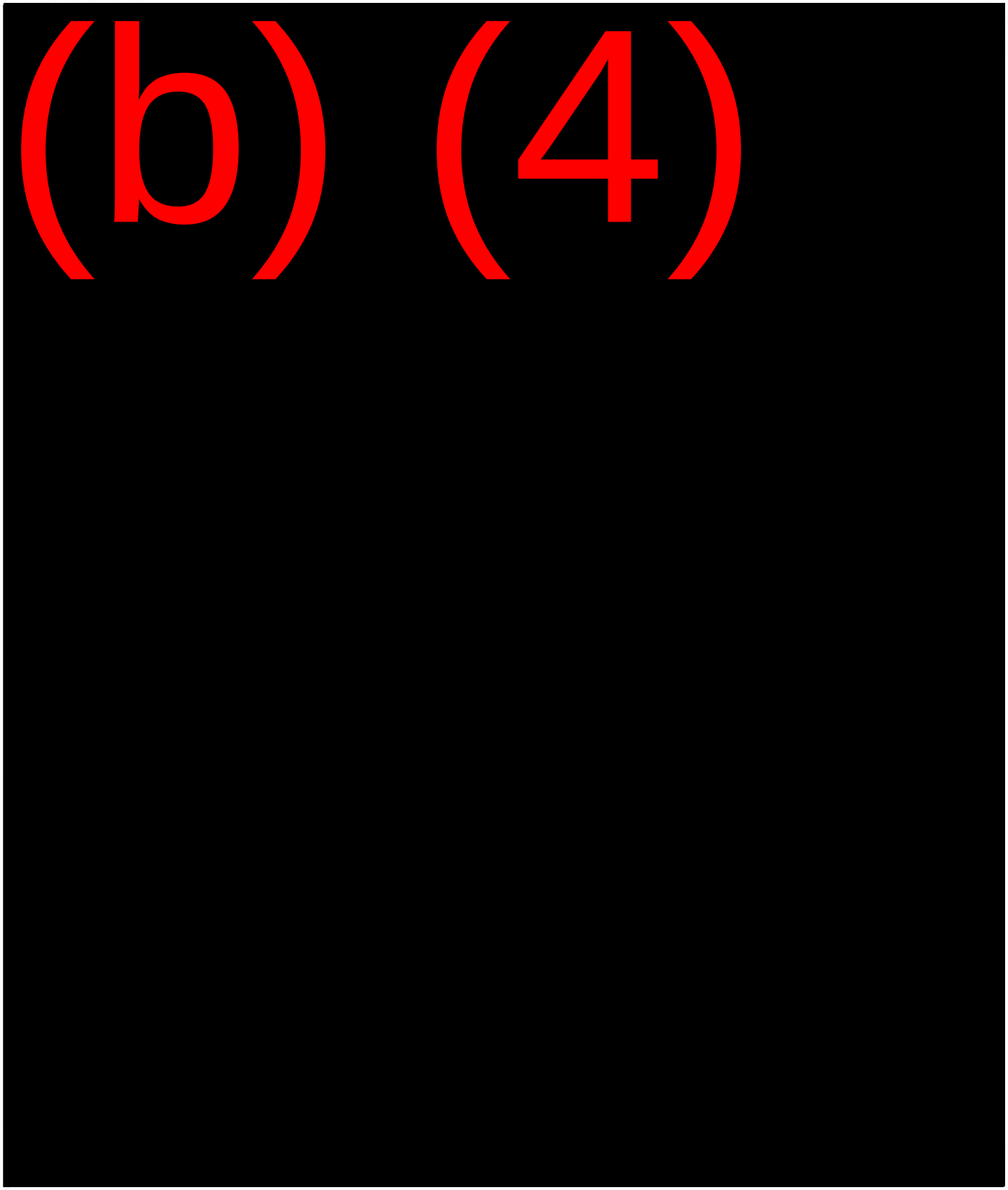
3.0 ACCEPTANCE TEST PROCEDURES



4.0 ACCEPTANCE TESTS

4.1 Physical Inventory

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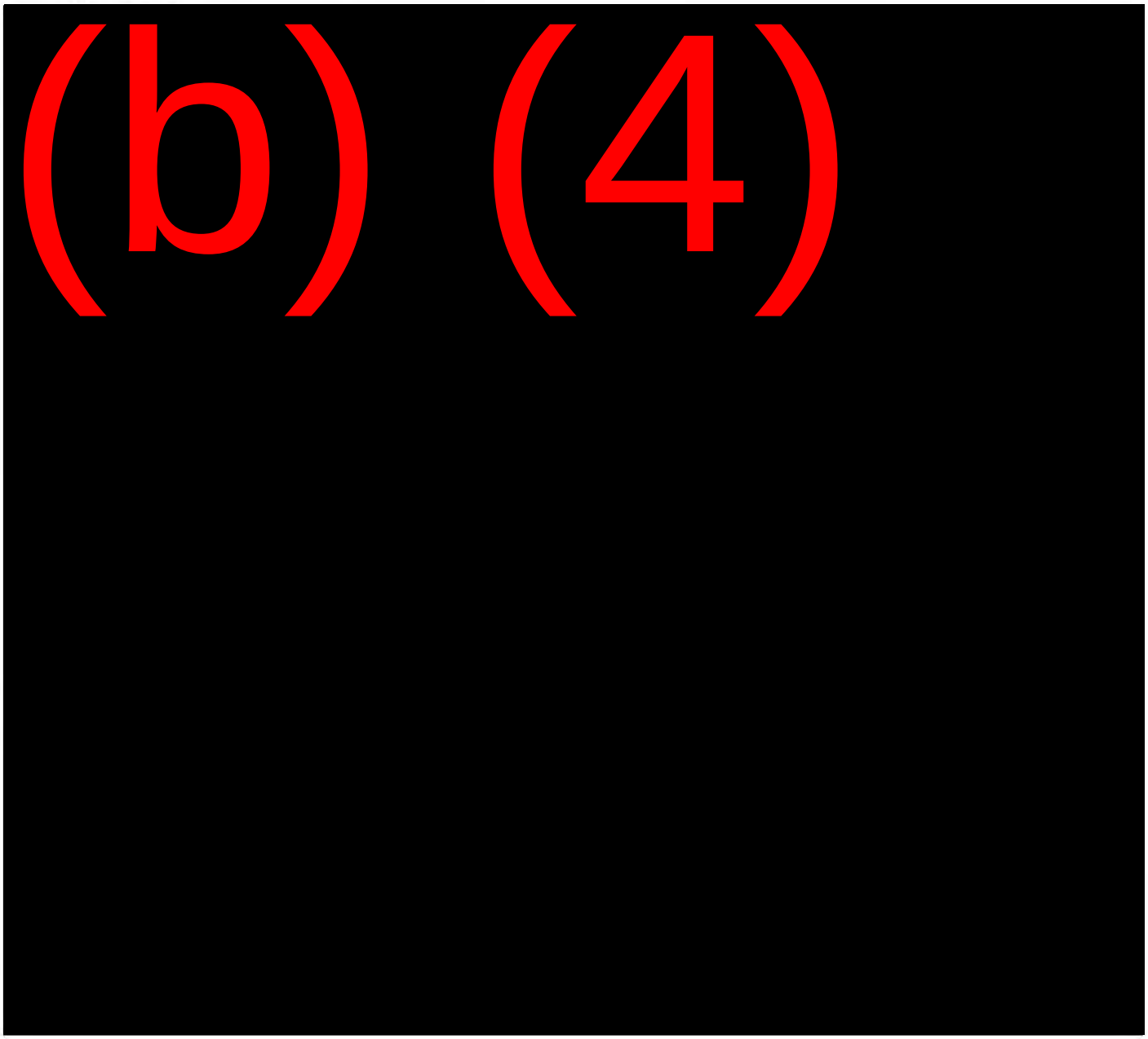
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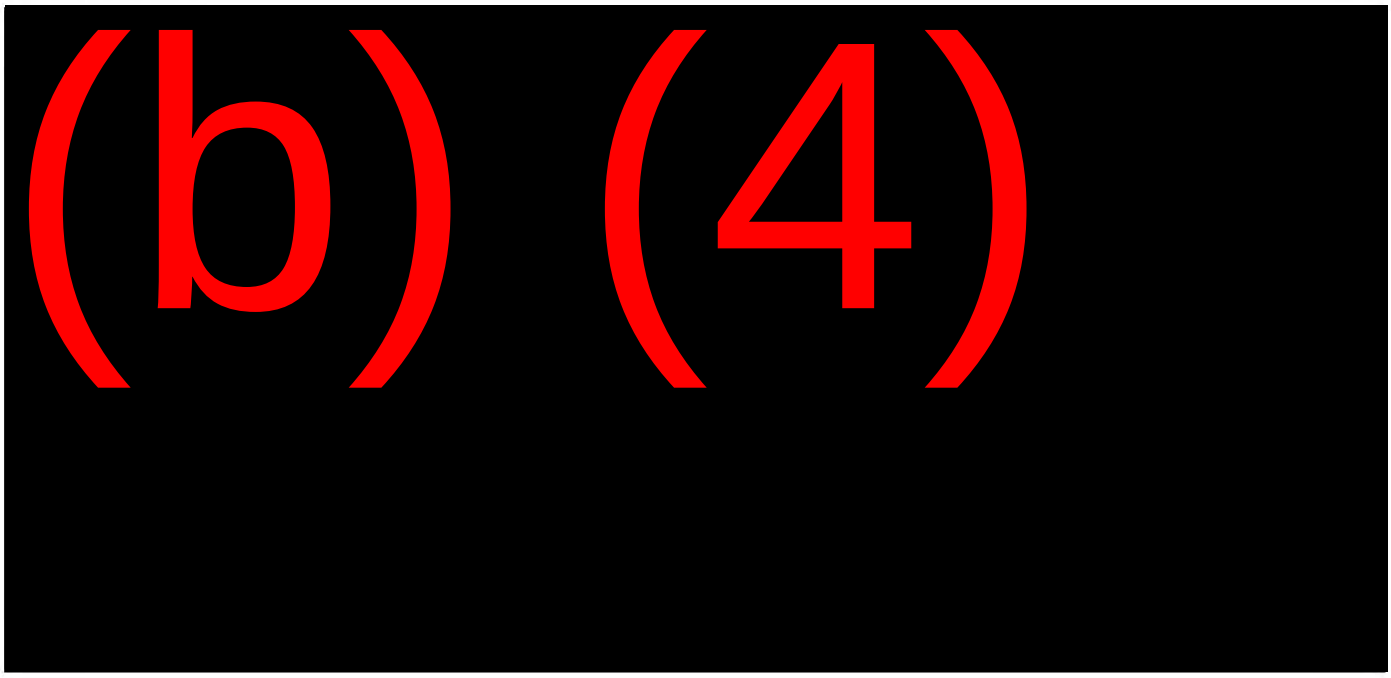
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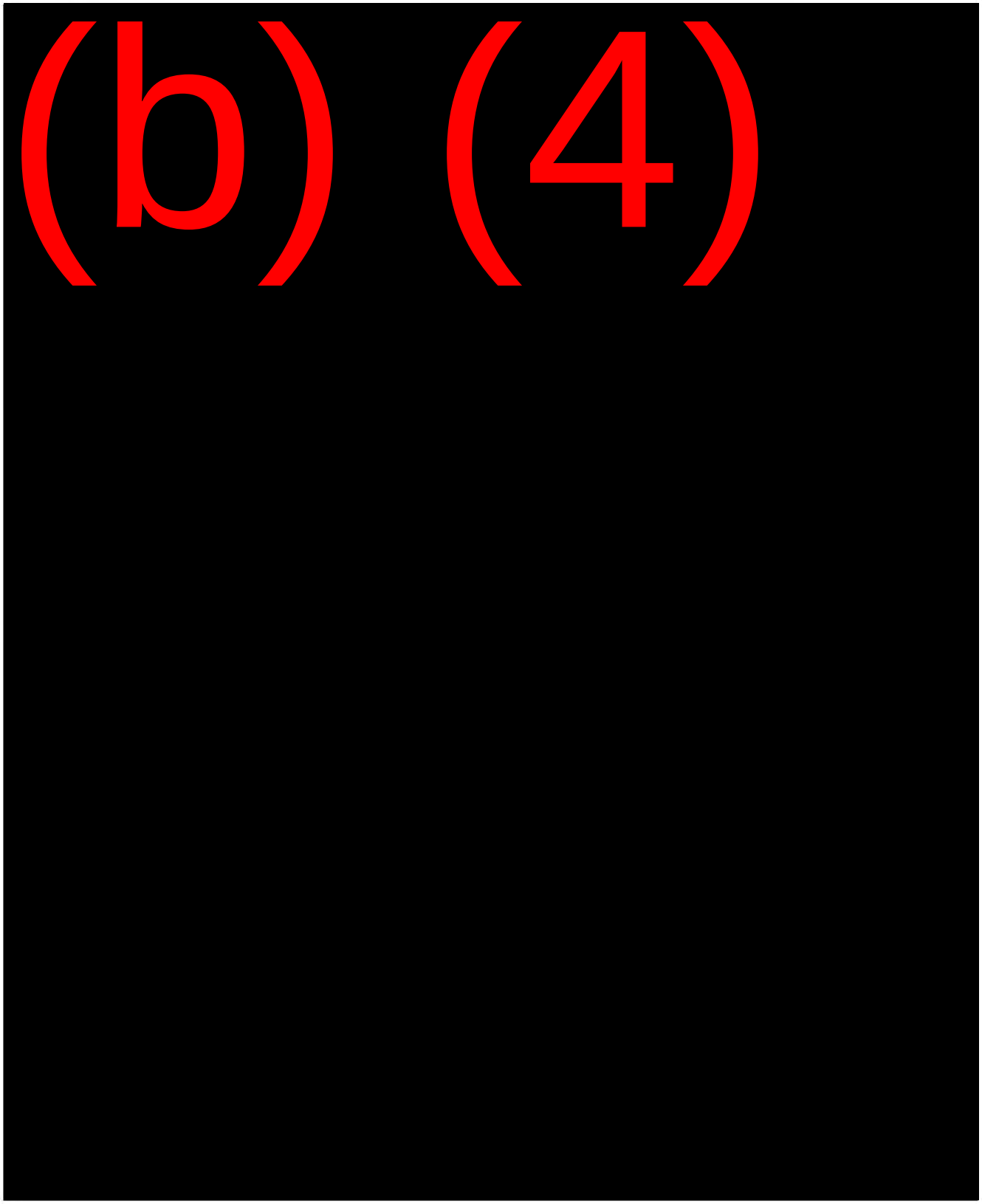
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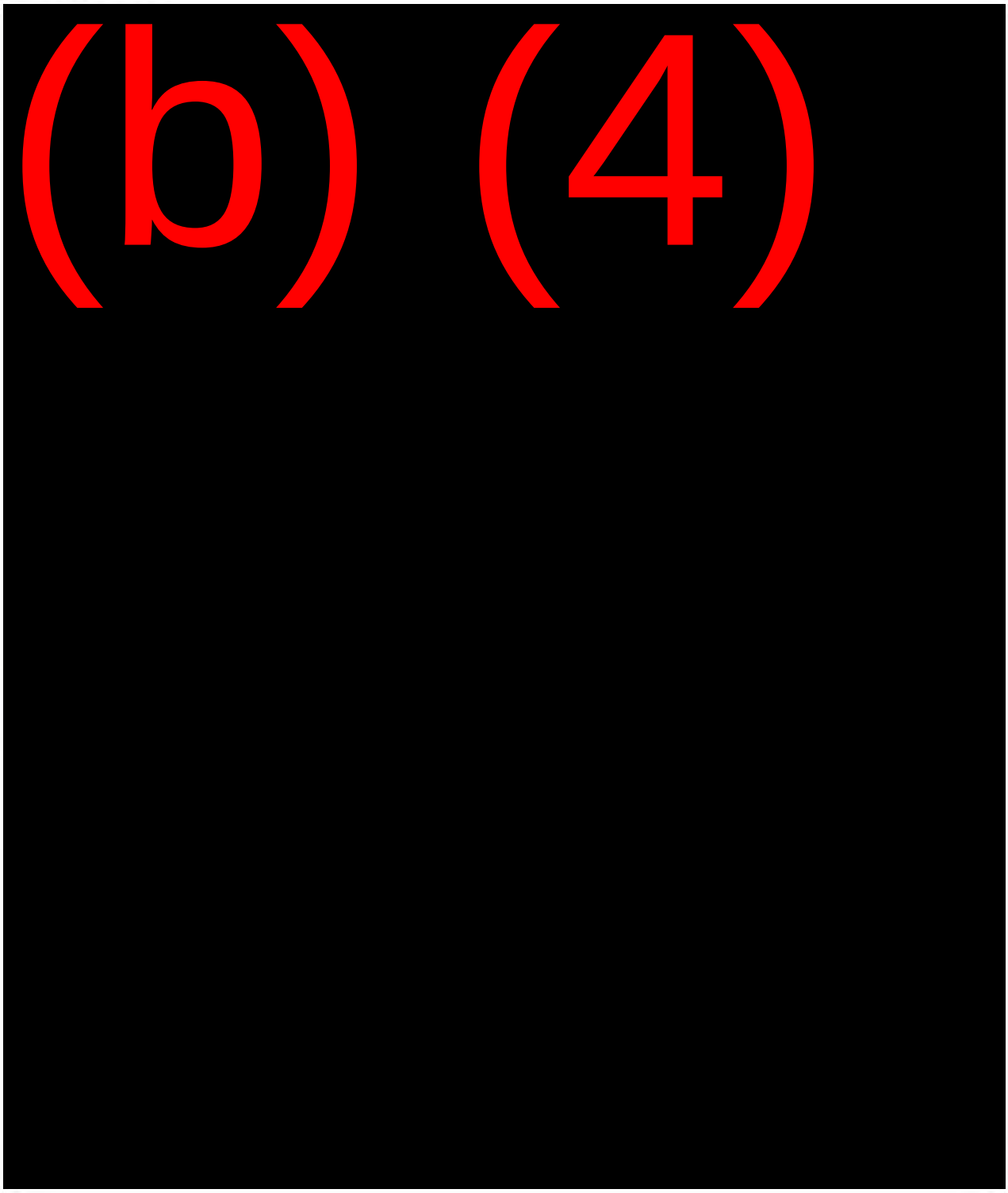
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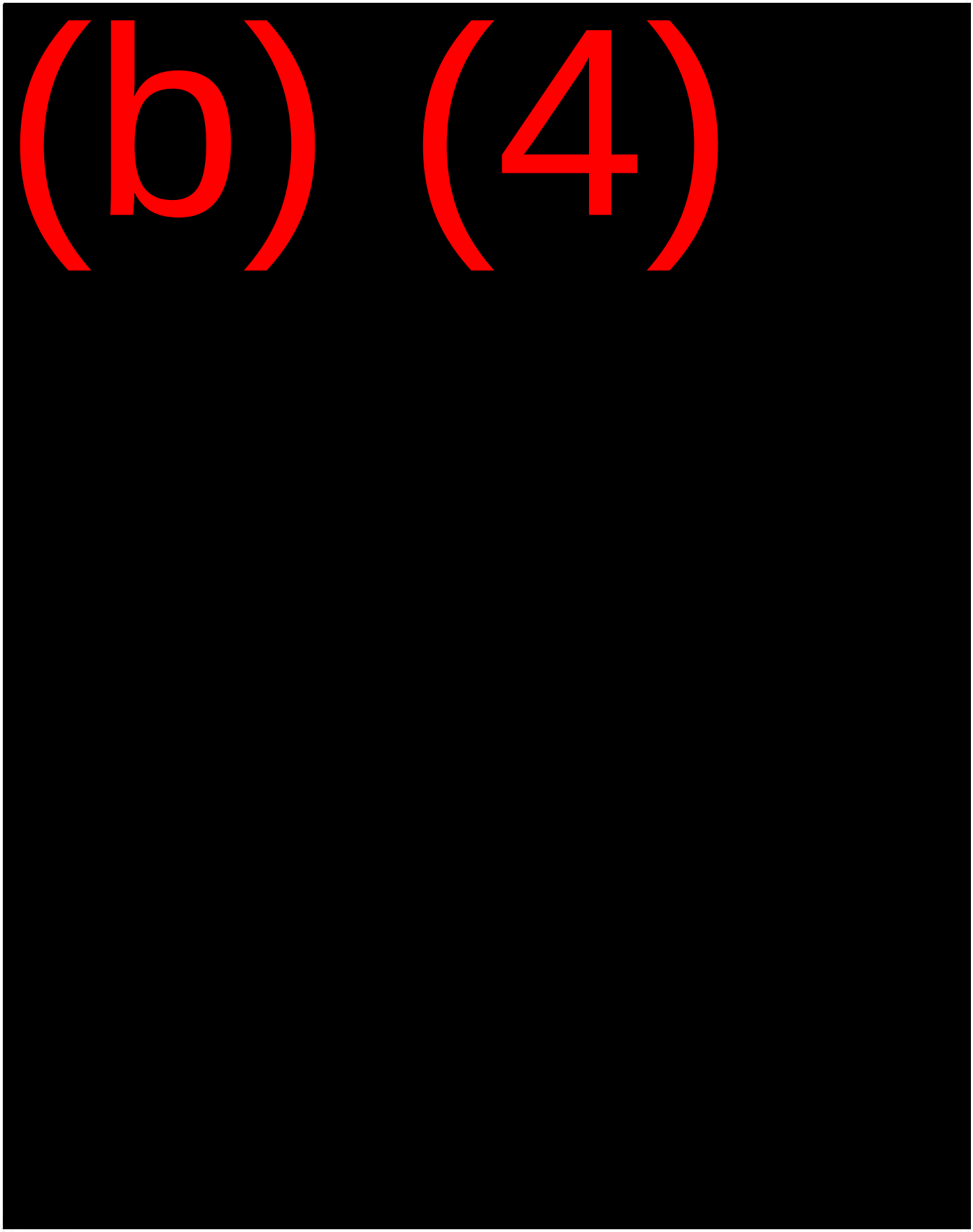
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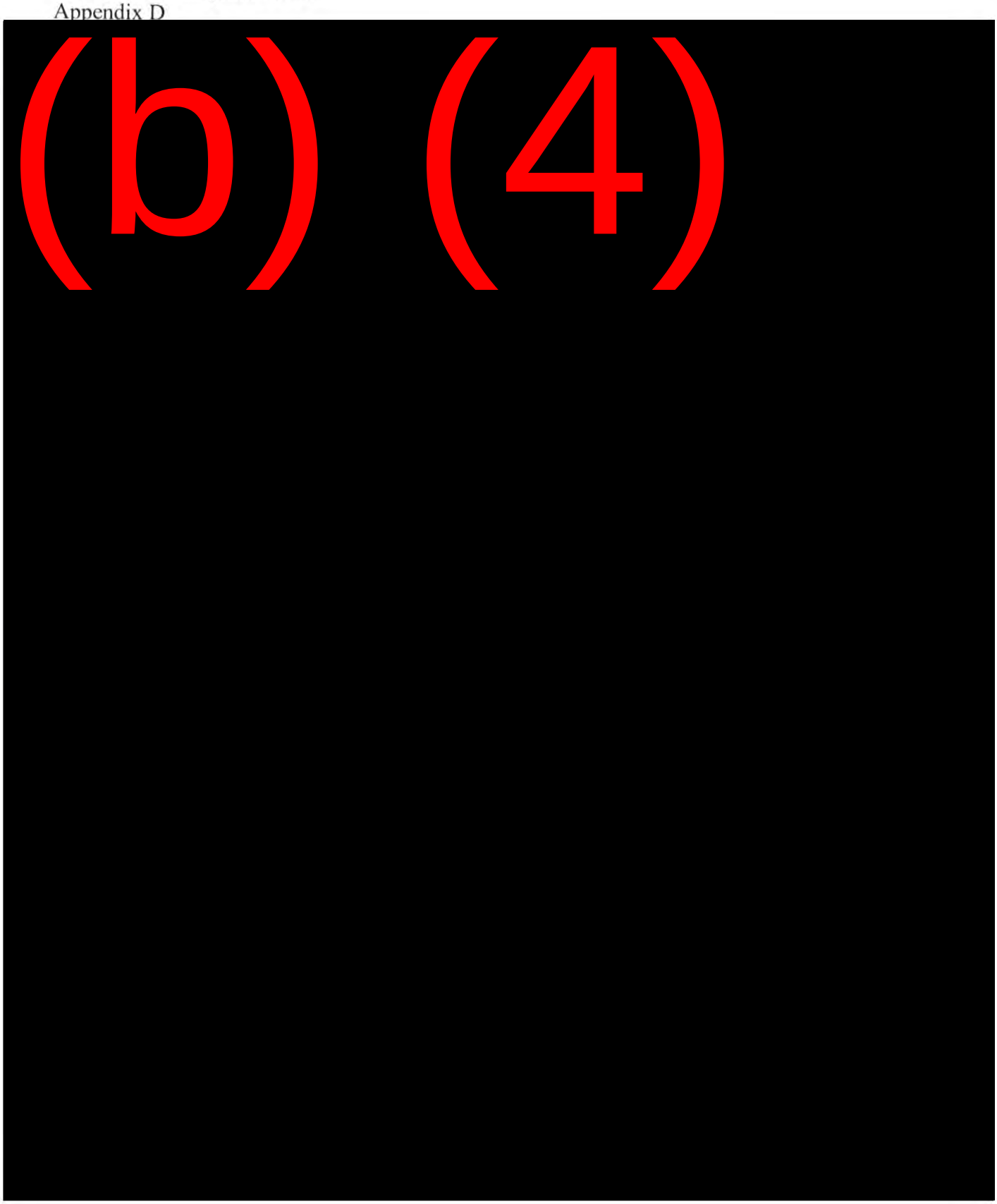
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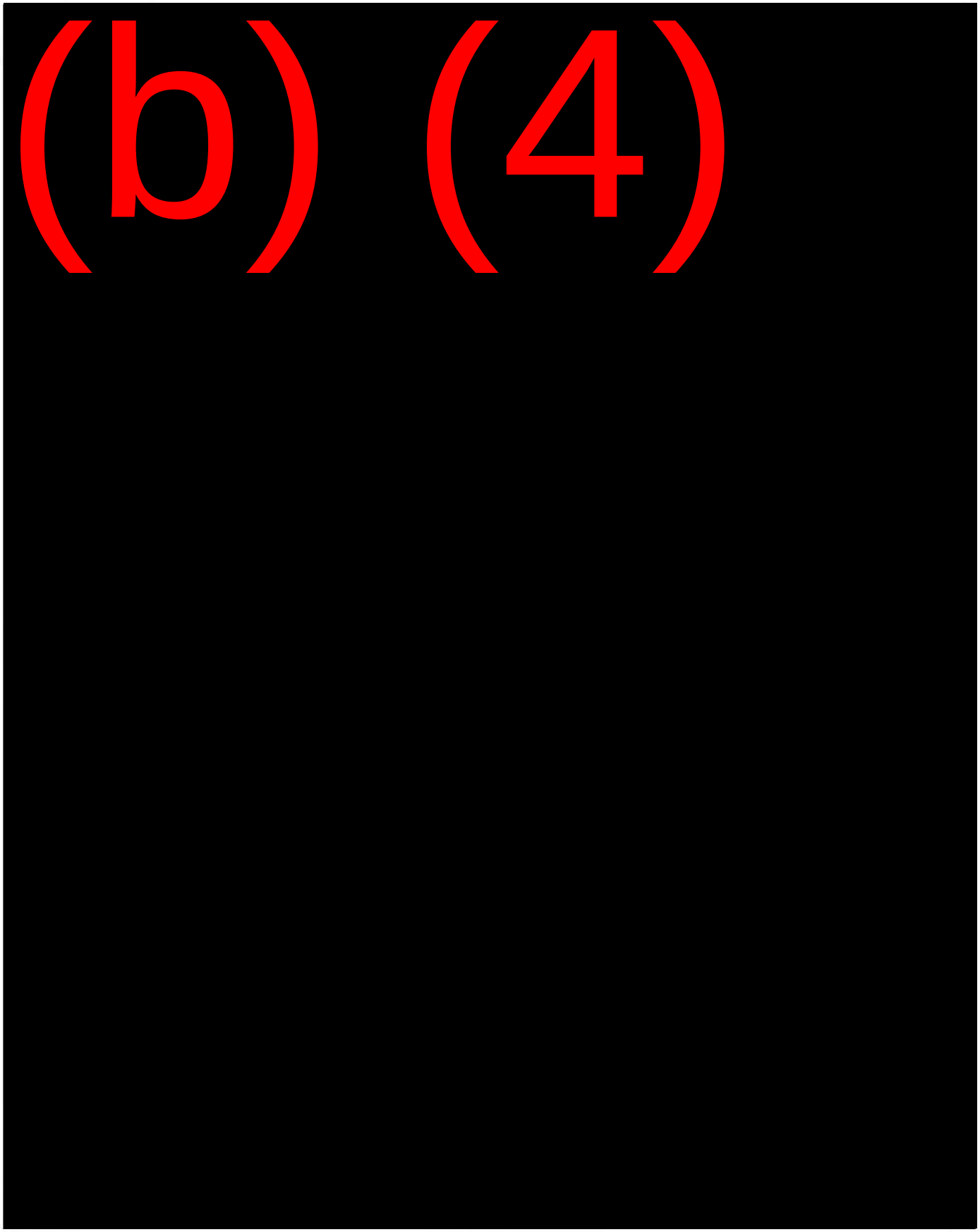
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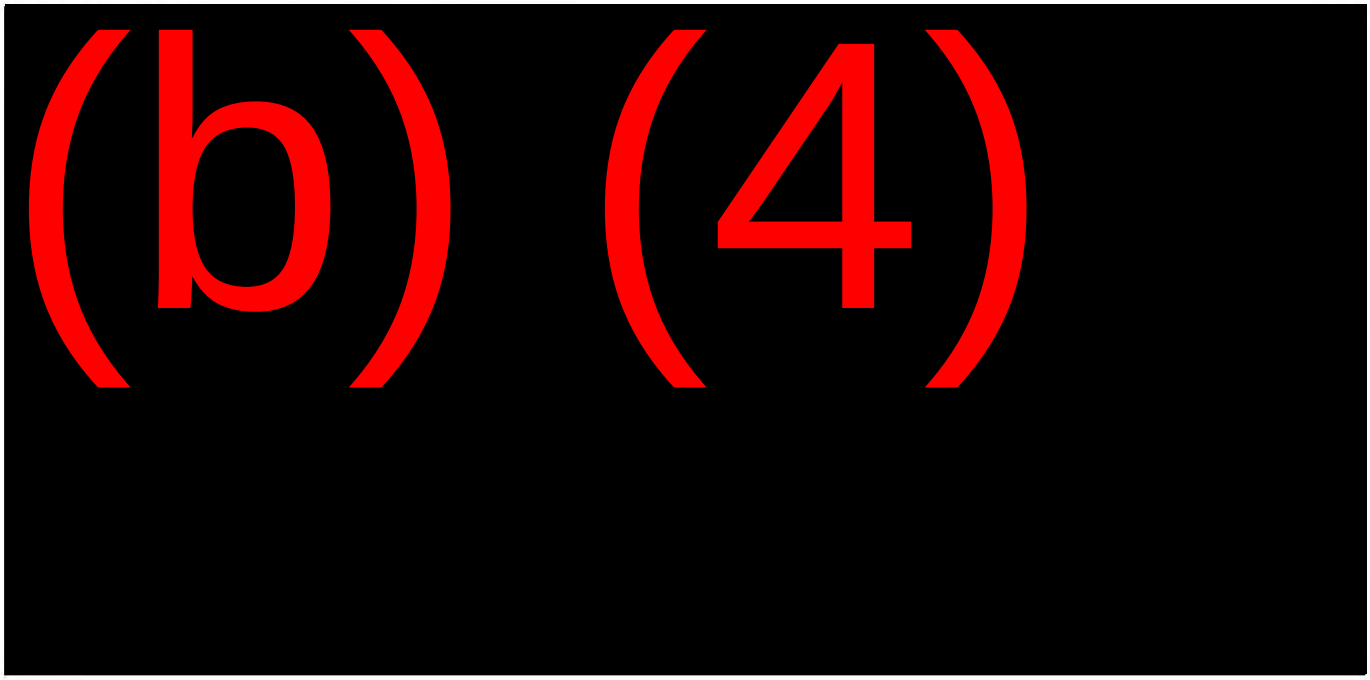
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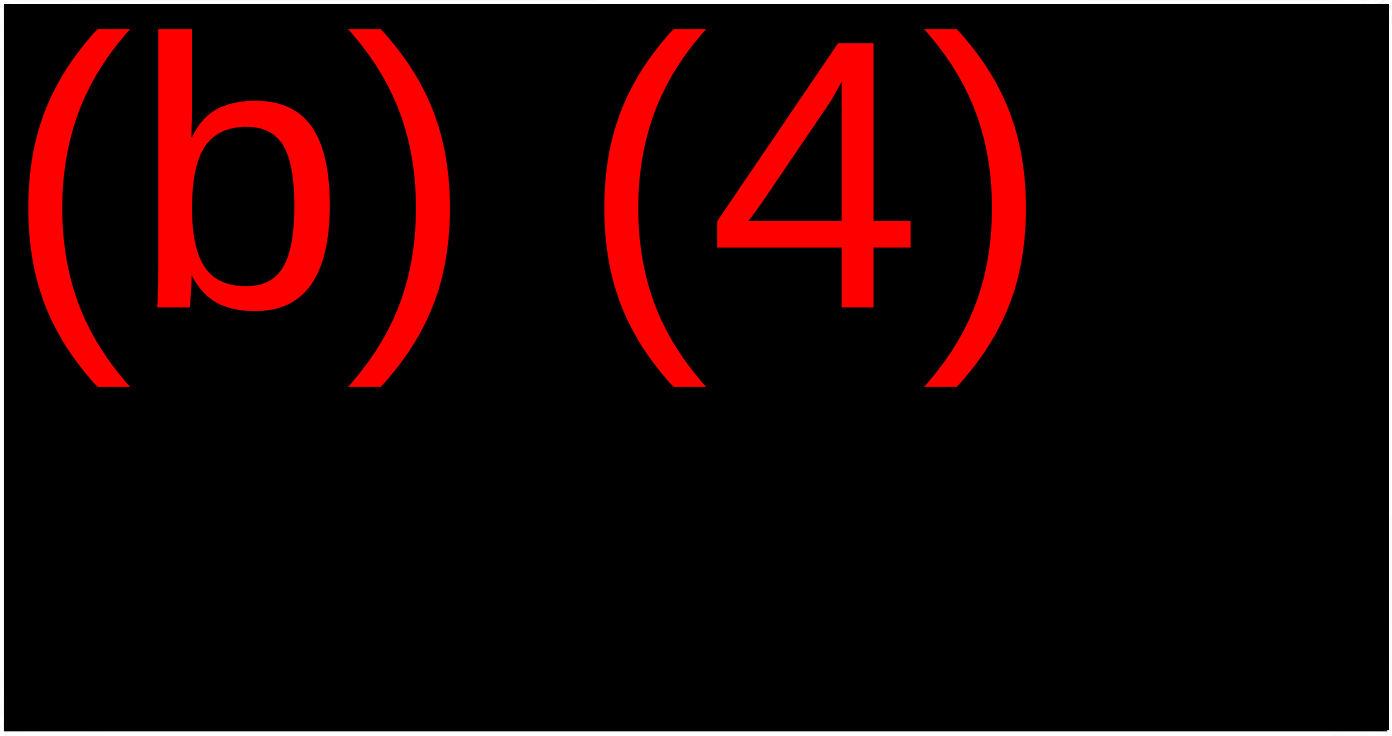
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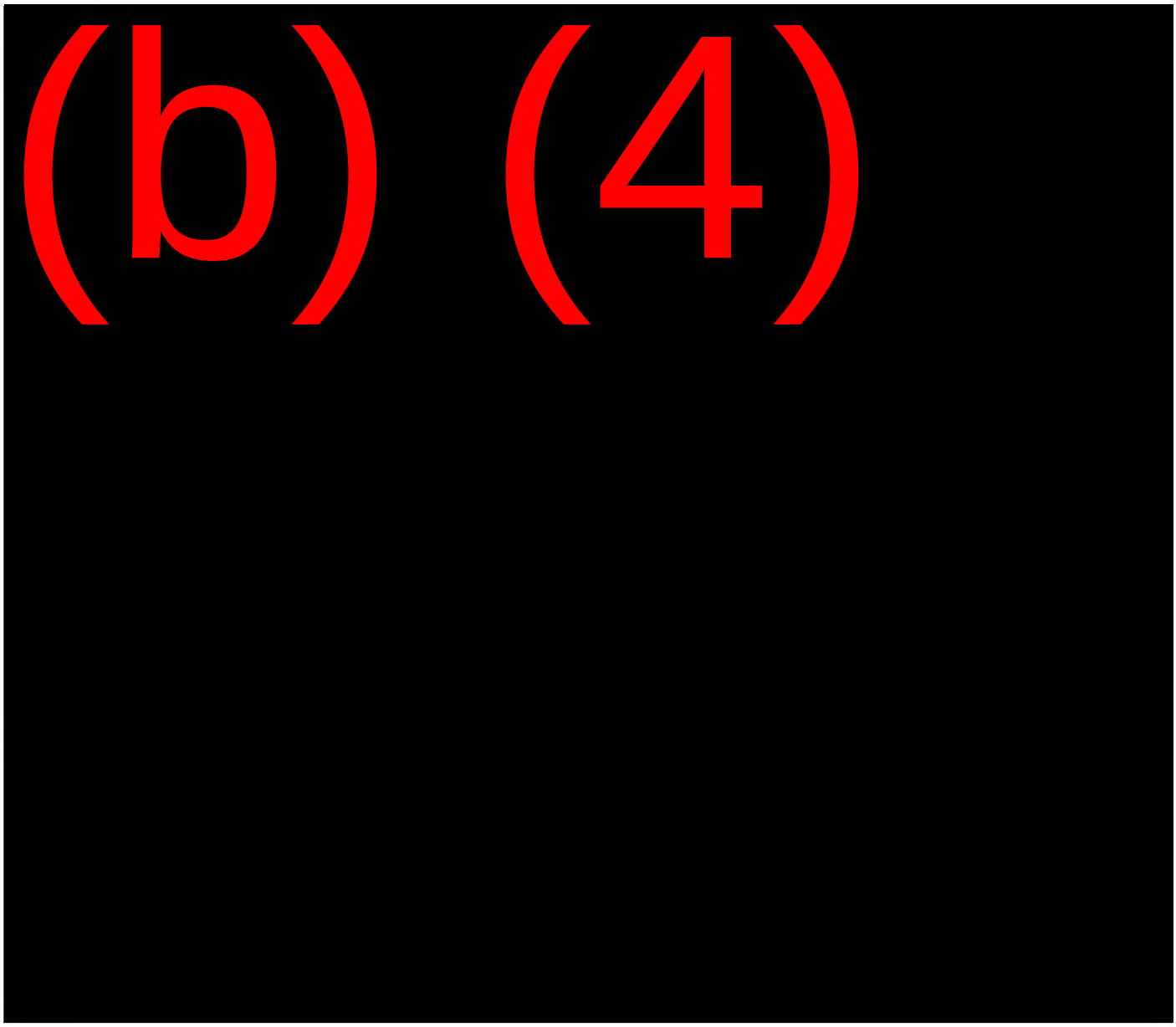
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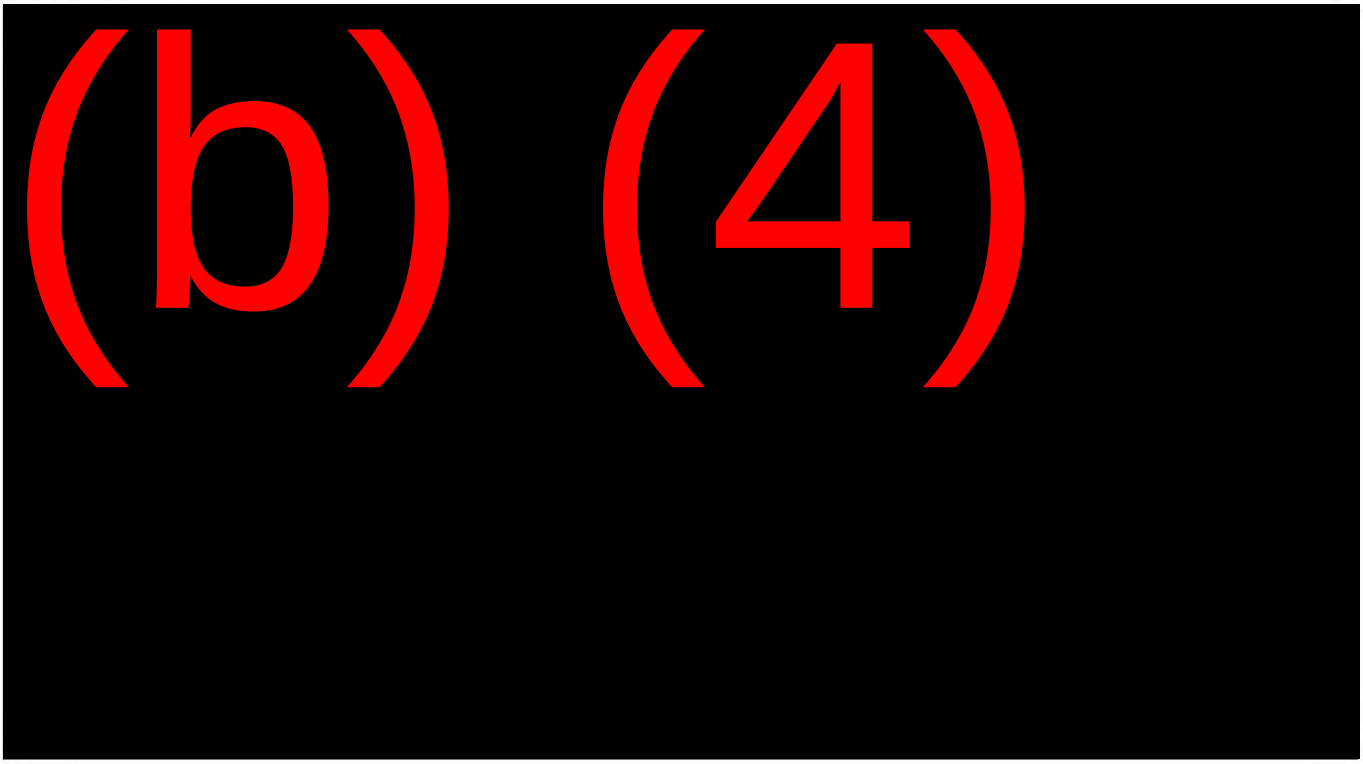
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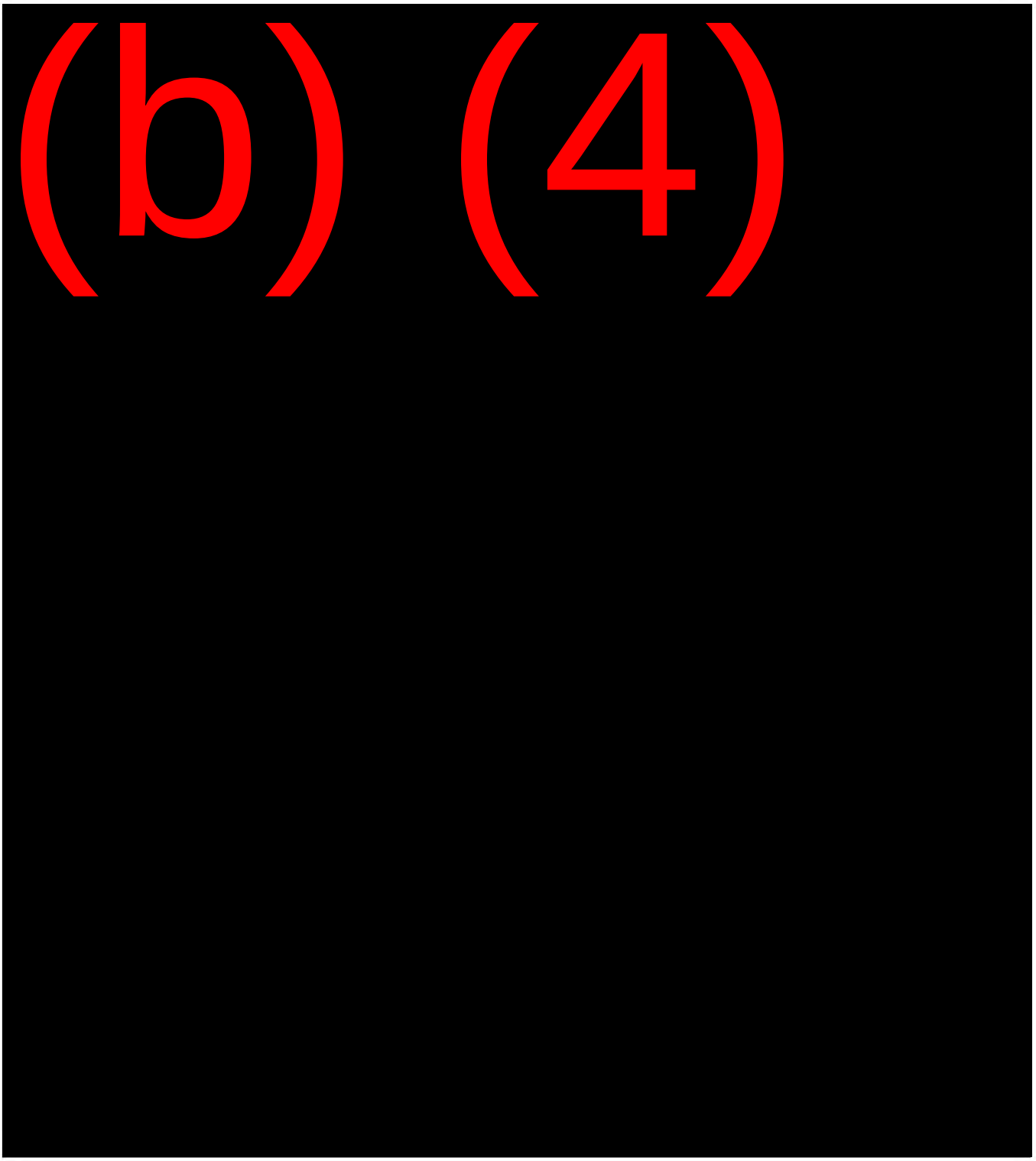
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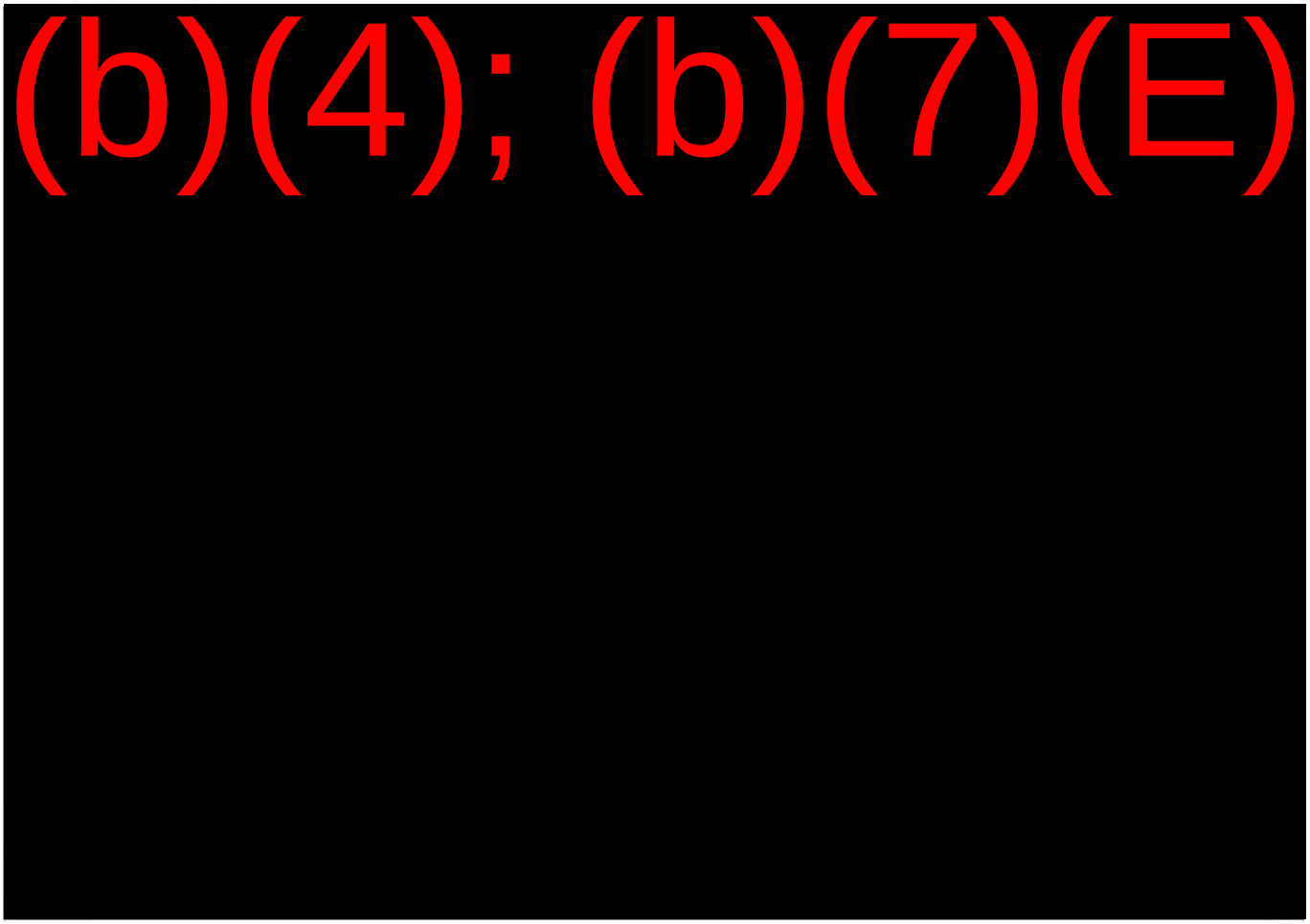
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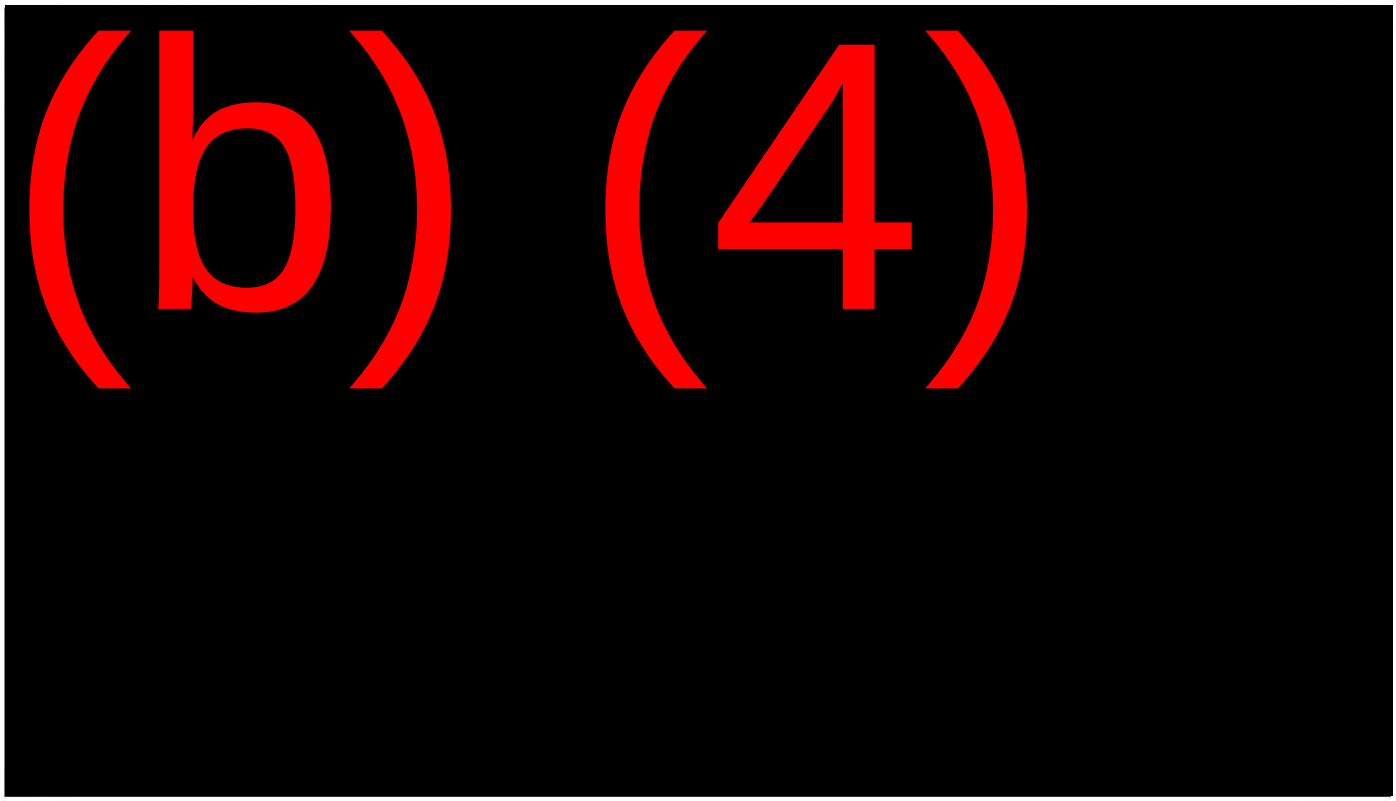
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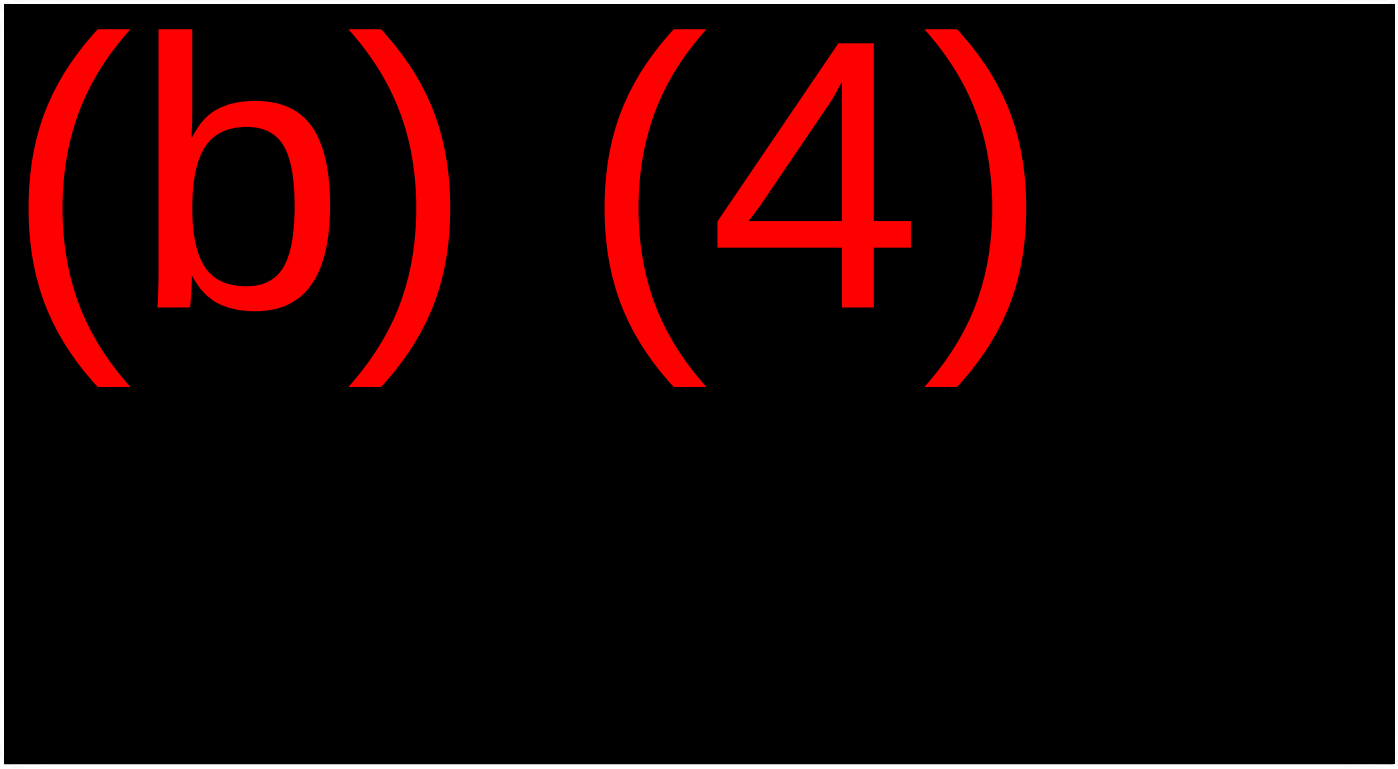
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