

## Unit 2 Test Study Guide

### (Linear Functions & Systems)

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Class: \_\_\_\_\_ Block: \_\_\_\_\_

#### Tools 1 & 2: Relations & Functions

Find the domain and range of each relation. Then determine if the relation is a function. If it is a function, state whether it is one-to-one.

x	y
1	3
2	3
3	5
4	7
5	8

$$D = \{1, 2, 3, 4, 5\}$$

$$R = \{3, 5, 7, 8\}$$

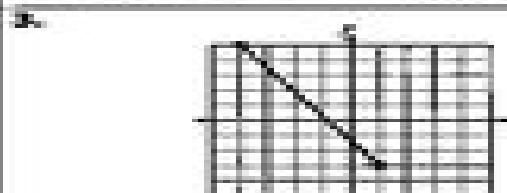
Function? Yes  
 One-to-One? No



$$D = \{1, 2, 3, 5\}$$

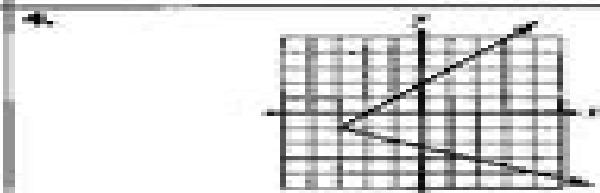
$$R = \{1, 2, 4\}$$

Function? No  
 One-to-One? No



$$D = \{x | x \geq -1\} \quad R = \{y | -3 \leq y \leq 5\}$$

Function? Yes  
 One-to-One? Yes



$$D = \{x | x \geq -3\} \quad R = \{y\}$$

Function? No  
 One-to-One? No

Use  $f(x) = -4x + 2$ ,  $g(x) = x^2 - 8x + 21$ , and  $h(x) = |9 - 3x|$  for questions 3 – 10.

3. Find  $g(-5)$      $(-5)^2 - 8(-5) + 21$   
 $25 + 40 + 21$

**ANSWER**

4. Find  $h(3)$      $|9 - 3(3)|$   
 $|9 - 9| = 0$   
 $0 = 0$

5. If  $f(x) = 5x$ , find  $x$ .

$$5x = -45x + 4$$

$$45x = -44x$$

**ANSWER**

6. Find  $f\left(\frac{11}{12}\right)$      $-4\left(\frac{11}{12}\right) + 2$   
 $-\frac{44}{12} + 2$

**ANSWER**

7. Find  $g(x + 4)$      $(x + 4)^2 - 8(x + 4) + 21$   
 $x^2 + 8x + 16 - 8x - 32 + 21$   
 $x^2 + 5$

**ANSWER**

8. If  $g(x) = 3x$ , find  $x$ .

$$3x = 5x + 2$$

$$3x = 2x + 2$$

$$x = -2$$

$$3x = 5x + 2$$

$$-2x = -2$$

$$x = 1$$

**ANSWER**

# Algebra 1 Semester 2 Study Guide

**American Council on Education**

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**The Independent Study Catalog** National University Continuing Education Association (U.S.),1989 [The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services](#) ,1984

**United States Armed Forces Institute Catalog** United States Armed Forces Institute,1961

DOD Pam United States. Office of Armed Forces Information and Education, [The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy](#). Dept. of Defense American Council on Education,1980

**The National Guide to Educational Credit for Training Programs** American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies

**The Macmillan Guide to Correspondence Study** Modoc Press,1996

**The Independent Study Catalog** Peterson's Guides,Peterson's,1992

**The Catalogue ... Announcements** ... North Carolina College for Women,University of North Carolina at Greensboro,Woman's College of the University of North Carolina,1930

[Assessment in a Secondary Mathematics Classroom](#) Linda Marie Dager Wilson,1993

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