

# Unit 1 Test Study Guide (Linear Functions & Systems)

Name: KLO  
Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Topic 1: 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.

1.

x	y
5	5
6	5
7	7
8	8

$$D = \{5, 6, 7, 8\}$$

$$R = \{5, 6, 7, 8\}$$

Function? Yes

One-to-One? No

2.



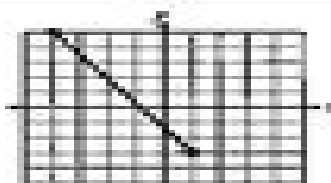
$$D = \{-2, -1, 0, 1, 2\}$$

$$R = \{-2, -1, 0, 1\}$$

Function? Yes

One-to-One? No

3.



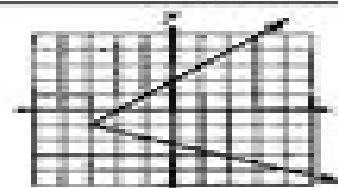
$$D = \{x | -4 \leq x \leq 1\}$$

$$R = \{y | -3 \leq y \leq 5\}$$

Function? Yes

One-to-One? Yes

4.



$$D = \{x | x \geq -3\}$$

$$R = \{y\}$$

Function? No

One-to-One? No

Use  $f(x) = -4x + 1$ ,  $g(x) = x^2 - 8x + 21$ , and  $h(x) = |9 - 3x|$  for questions 5 - 10.

5. Find  $g(-5)$

$$(-5)^2 - 8(-5) + 21$$

$$25 + 40 + 21$$

$$\boxed{86}$$

6. Find  $f\left(\frac{11}{12}\right)$

$$-4\left(\frac{11}{12}\right) + 1$$

$$-\frac{11}{3} + 1$$

$$\boxed{-\frac{8}{3}}$$

7. Find  $h(8) - f(-7)$

$$h(8) = |9 - 3(8)|$$

$$= |9 - 24|$$

$$= 15$$

$$f(-7) = -4(-7) + 1$$

$$= 28 + 1$$

$$= 29$$

$$15 - 29 = \boxed{-14}$$

8. Find  $g(x+4)$

$$(x+4)^2 - 8(x+4) + 21$$

$$x^2 + 8x + 16 - 8x - 32 + 21$$

$$\boxed{x^2 + 5}$$

9. If  $f(x) = 53$ , find  $x$ .

$$53 = -4x + 1$$

$$52 = -4x$$

$$\boxed{-13 = x}$$

10. If  $h(x) = 39$ , find  $x$ .

$$|9 - 3x| = 39$$

$$9 - 3x = 39$$

$$-3x = 30$$

$$x = -10$$

$$9 - 3x = -39$$

$$-3x = -48$$

$$x = 16$$

$$\boxed{\{-10, 16\}}$$

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