

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? Yes

2.



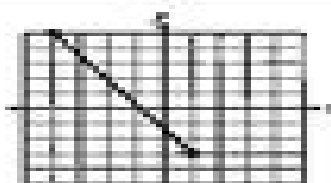
$$D = \{1, 2, 3, 4, 5\}$$

$$R = \{7, 8, 9, 10\}$$

Function? No

One-to-One? No

3.



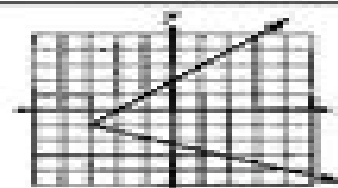
$$D = \{x \mid -4 \leq x \leq 1\}$$

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

Function? Yes

One-to-One? Yes

4.



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

$$R = \{y \mid y \geq 0\}$$

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 .

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

$$9 - 3x = 39$$

$$-3x = 30$$

$$x = -10$$

$$9 - 3x = -39$$

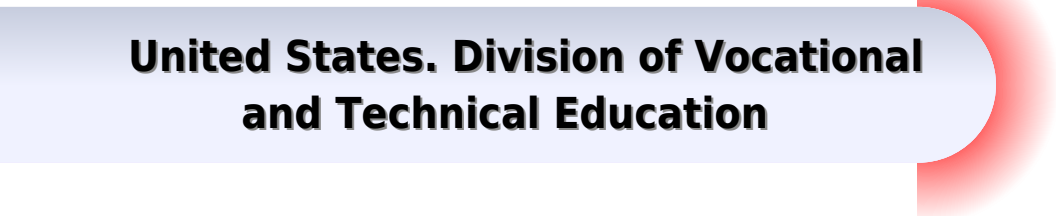
$$-3x = -48$$

$$x = 16$$

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

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