

## Graphing Practice Quiz #2

For each relation:

a) State if it is a function, b) Give the domain, c) Give the range.

1)  $B(2, -7)$   $C(9, -9)$   $D(-5, -2)$   
 $E(-8, -8)$   $F(-4, -7)$

2)  $S(5, 8)$   $T(5, -5)$   $U(-2, -4)$   
 $V(-8, 2)$   $W(1, -4)$

a) YES

a) NO  $\rightarrow (5, 8)$  AND  $(5, -5)$ b) DOMAIN:  $\{2, 9, -5, -8, -4\}$ b) DOMAIN:  $\{5, -2, -8, 1\}$ c) RANGE:  $\{-7, -9, -2, -8\}$ c) RANGE:  $\{8, -5, -4, 2\}$ 

3)  $N(-3, 6)$   $M(-8, -6)$   $L(-3, -5)$   
 $K(6, 5)$   $J(-10, 10)$   $I(5, -5)$   
 $H(4, -1)$   $G(-5, 10)$   $F(10, -4)$   
 $E(-3, 0)$

4)  $A(-4, -1)$   $B(1, 2)$   $C(-7, 7)$   
 $D(-2, -8)$   $E(9, 0)$   $F(6, -4)$   
 $G(0, 5)$   $H(7, 8)$   $I(-5, -5)$   
 $J(2, 8)$

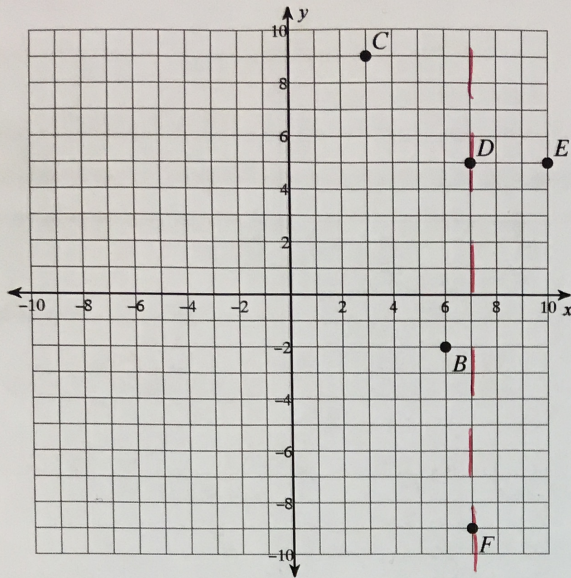
a) NO  $\rightarrow (-3, 6)$  AND  $(-3, -5)$ 

a) YES

b) DOMAIN:  $\{-3, -8, 6, -10, 5,$   
 $4, -5\}$ b) DOMAIN:  $\{-4, 1, -7, -2, 9,$   
 $6, 0, 7, -5, 2\}$ c) RANGE:  $\{6, -6, -5, 5, 10, -1, -4, 0\}$ c) RANGE:  $\{-1, 2, 7, -8, 0, -4, 5,$   
 $8, -5\}$



5)

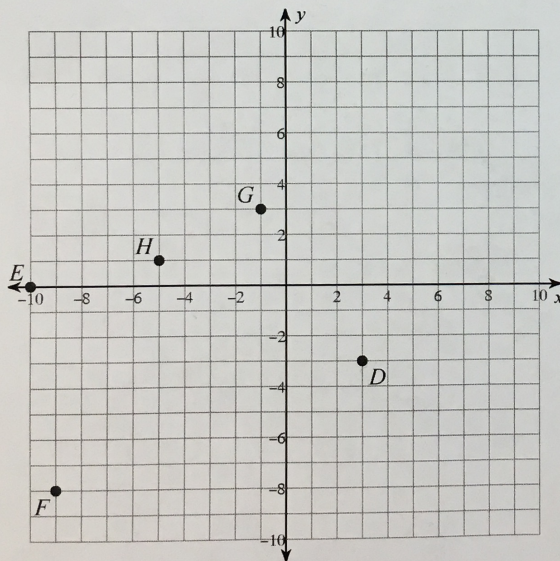


a) NO  $\rightarrow$  D AND F

b) DOMAIN:  $\{3, 6, 7, 10\}$

c) RANGE:  $\{-9, -2, 5, 9\}$

6)



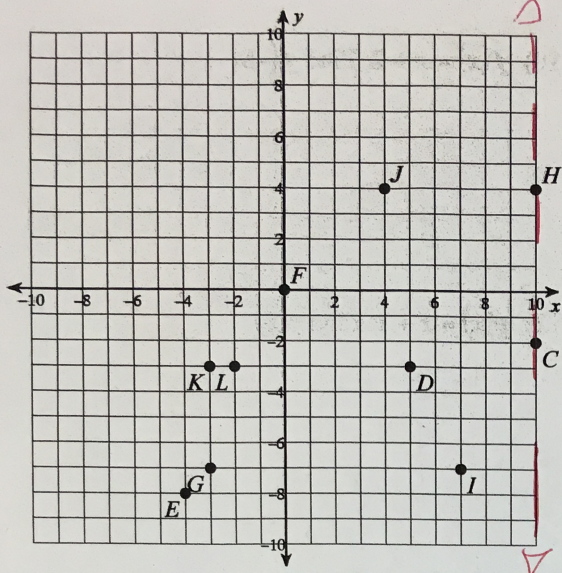
a) YES

b) DOMAIN:  $\{-10, -5, -1, 3\}$

c) RANGE:  $\{-8, -3, 0, 1, 3\}$



7)

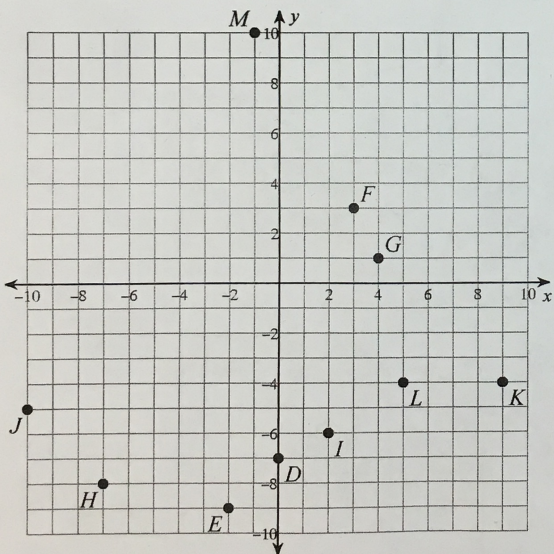


a) NO  $\rightarrow$  H AND C

b) DOMAIN:  $\{-4, -3, -2, 0, 4, 5, 7, 10\}$

c) RANGE:  $\{-8, -7, -3, -2, 0, 4\}$

8)



a) YES

b) DOMAIN:  $\{-10, -7, -2, 0, 3, 4, 5, 9\}$

c) RANGE:  $\{-9, -8, -7, -6, -5, -4, 1, 3\}$



Evaluate each function.

9)  $w(n) = n - 4$ ; Find  $w(2)$

$$= 2 - 4$$

$$= \boxed{-2}$$

10)  $f(x) = x + 2$ ; Find  $f(-5)$

$$= -5 + 2$$

$$= \boxed{-3}$$

11)  $g(n) = n + 3$ ; Find  $g(-2)$

$$= -2 + 3$$

$$= \boxed{1}$$

12)  $p(x) = x + 1$ ; Find  $p(8)$

$$= 8 + 1$$

$$= \boxed{9}$$

13)  $f(n) = -3n + 2$ ; Find  $f(7)$

$$= -3(7) + 2$$

$$= -21 + 2$$

$$= \boxed{-19}$$

14)  $g(t) = 2t - 2$ ; Find  $g(4)$

$$= 2(4) - 2$$

$$= 8 - 2$$

$$= \boxed{6}$$

15)  $f(x) = 4x - 5$ ; Find  $f(-4)$

$$= 4(-4) - 5$$

$$= -16 - 5$$

$$= \boxed{-21}$$

16)  $h(x) = 3x - 5$ ; Find  $h(-7)$

$$= 3(-7) - 5$$

$$= -21 - 5$$

$$= \boxed{-26}$$

17)

$y = -4x + 6$	
x	y
0	$-4(0) + 6$ $= 0 + 6 = \boxed{6}$
2	$-4(2) + 6$ $= -8 + 6 = \boxed{-2}$
4	$\boxed{-10}$
-3	$\boxed{18}$
-5	$\boxed{26}$

18)

$y = 2x - 3$	
x	y
0	$\boxed{-3}$
3	$\boxed{3}$
7	$\boxed{11}$
-4	$\boxed{-11}$
-9	$\boxed{-21}$