Name: _____ **hour:** _____ **Date:** _____ **ID: PRACTICE**

Quiz on 2.1 - 2.3 PRACTICE

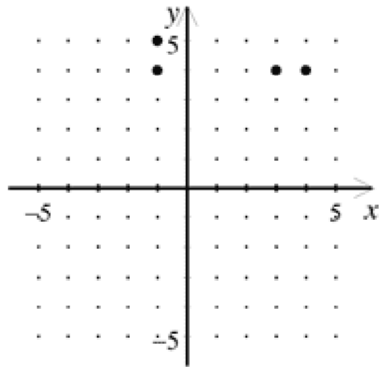
1. Find the range of the relation $\{(2,1),(-3,-1),(-4,5)\}$.

   _____

2. Determine whether the relation is a function.
   (2, 6), (3, 6), (4, 7), (5, 8), (6, 8)

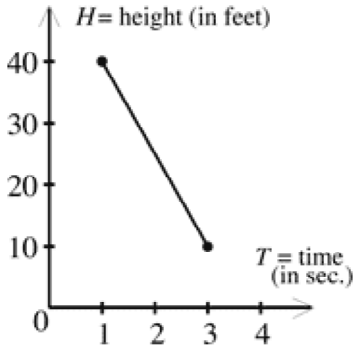
   _____

Use the vertical line test to determine if the graph represents *y* as a function of *x*.

3. 

   _____

4. What is the domain and what is the range of the function in the graph?



   Domain:_____ Range:_____

5. ***Given f(x) = 4x - 2. Evaluate:***

   a. f(5) b. *f(-6)* c. *f(0)*

   f(5) = _____ *f(-6)* = _____ *f(0)* = _____

6. Find the slope of the line passing through the points (9, –2) and (–4, –5).

_____

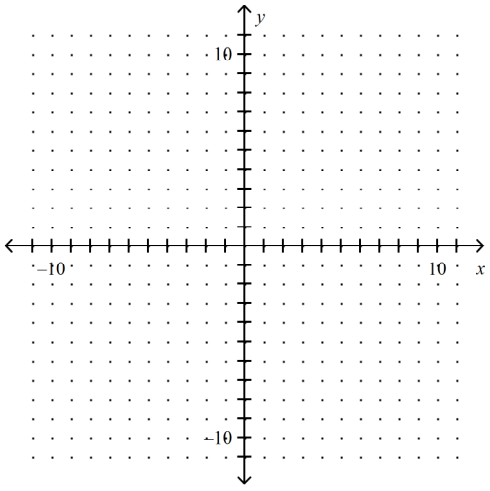
7. Tell whether **Line 1** and **Line 2** are *parallel*, *perpendicular*, or *neither*.

   Line 1 passes through (2, –3) and (4, 2)

   Line 2 passes through (1, –5) and (–4, –3)

_____

8. Graph $y = \frac{2}{3}x + 2$.



____ 9. Find the x- and y-intercepts of $y = -2x - 5$.

a. x-intercept: –2; y-intercept: –5

c. x-intercept: $-\frac{5}{2}$; y-intercept: –5

b. x-intercept: –5; y-intercept: $-\frac{5}{2}$

d. x-intercept: –5; y-intercept: –2

10. Find the slope and y-intercept of the graph of $4x + 3y = 24$.

_____