Algebra Review #28 SHOW HOW YOU SOLVED EACH PROBLEM

1. Which expression correctly represents \$3 less than twice the cost, c?

A
$$3 - 2c$$

B
$$3 - 2 + c$$

$$C 2c - 3$$

D
$$\frac{c}{2} - 3$$

2.

What is the value of

$$\frac{mn}{r^2}$$

if
$$m = 7$$
, $n = 18$, and $r = 6$?

- 3.5 a.
- b. 10.5
- 21 C.
- d. 63

3. What is the slope of the equation?

$$-2y = x - 1$$

NAME

4. Which is an equation for the line that contains the points (-3,5) and (1,-3)?

a.
$$y = -x + 2$$

a.
$$y = -x + 2$$
 c. $y = -\frac{1}{2}x - \frac{3}{2}$

b.
$$y = -2x - 1$$

b.
$$y = -2x - 1$$
 d. $y = \frac{3}{2}x - \frac{9}{2}$

5. Which set of ordered pairs is a function?

a.
$$\{(-6,12),(1,8),(1,13)\}$$

b.
$$\{(0,2),(0,4),(4,0)\}$$

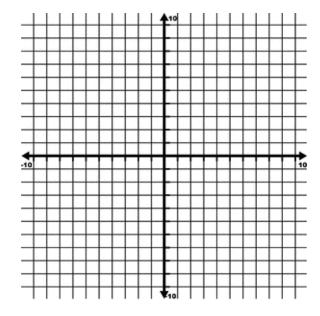
c.
$$\{(7,-1),(7,-2),(7,-3)\}$$

d.
$$\{(1,3),(2,4),(3,5)\}$$

6. Draw a graph of the equation

$$y + 1 = 3x$$

Slope:____ Y-intercept:_____

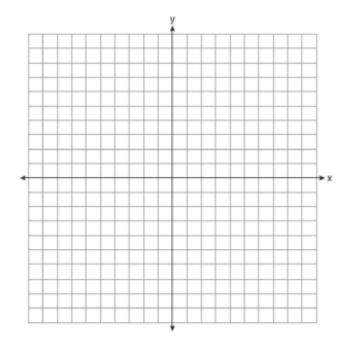


7. What is the value of the following in simplest form?

$$9\sqrt{18} - 2\sqrt{50}$$

8. Graph the following system of inequalities:

$$2x - y \ge 6$$



Is (3,0) a solution to this system? YES or NO

Is (2,-3) a solution to this system? YES or NO

9. If y varies directly with x and the constant of variation is 9, which equation represents this relationship?

A
$$y = 9x$$

B y =
$$\frac{9}{x}$$

B
$$y = \frac{9}{x}$$

C $y = \frac{x}{9}$

D
$$y = -9x$$

10. Solve this system of equations:

$$\begin{cases} y = 4x + 2 \\ y = x - 1 \end{cases}$$