Algebra Review #24 ***SHOW HOW YOU SOLVED EACH PROBLEM***

NAME _____

1. Evaluate the following:
If x = -2 and y = -5,

$$\frac{4x^2 + xy - 2}{y - x}$$

2. If $f(x) = 5x^2 - x + 7$ and the domain is {-3,0,1,3} what is the range?

3. List each property shown below:

Step	Reason
6 (4x – 1) = 3 (x – 7)	Given
24x – 6 = 3x – 21	
21x – 6 = – 21	
21x = -15	
x = -5/7	

4. Write the equation of a line that passes through (3,-5) and (-1,-5) in slope-intercept form.

5. Find the slope and the y-intercept from the following equation (remember, the equation must be in y=mx+b form).

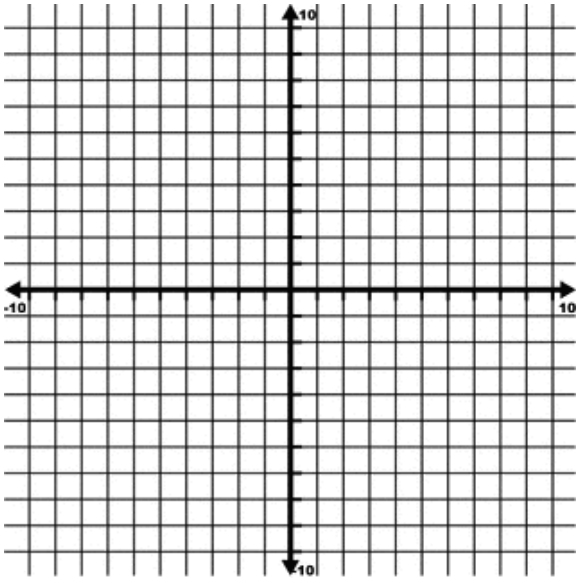
$$-3x - 12y = 24$$

Slope:_____ Y-intercept:_____

6. Draw a graph of the equation

$$y = -\frac{2}{3}x + 2$$

What is the slope? What is the y-intercept?



7. What is the value of the following:

$$-4\sqrt{20} + 2\sqrt{45}$$

8. What is the value of the following:

$$\sqrt{98} \cdot -2\sqrt{50}$$

9. Solve for x:

What is the solution to the following equation?

$$\frac{2}{3}(6x - 3) = 4x$$

10. Solve for r.

$$4 = \frac{1}{3}\pi xr$$