

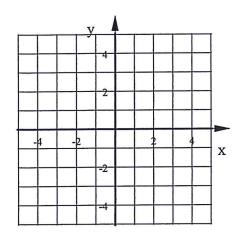
Algebra Bellwork Thursday, December 17, 2015

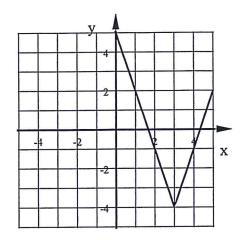
1. Graph this function with at least 5 points.

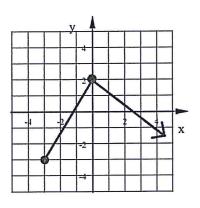
2. Write the equation

2. Write the equation of this graph.

$$y = -2(x+2)^2 + 5$$







- 3. State the Domain and Range of this graph:
- 4. The value of a painting you own is dropping. The value of the painting is a function of how many years you've owned it. At first the painting was worth \$100,000. The price dropped \$1250 each year. Write a function rule to model this situation. Define your variables. EQ:

Variables:

- a. In how many years will the painting be worth \$70,000?
- 5. Use these two functions: $h(c) = c^2 4$ and p(a) = 7 - aFind 2h(-3) - 4p(-2)

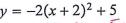


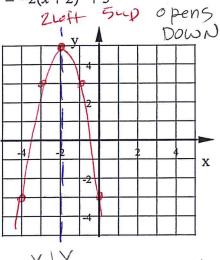
Answers

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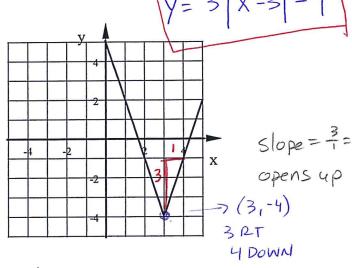
1. Graph this function with at least 5 points.

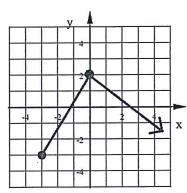
2. Write the equation





2. Write the equation of this graph.





- 3. State the Domain and Range of this graph:
- 4. The value of a painting you own is dropping. The value of the painting is a function of how many years you've owned it. At first the painting was worth \$100,000. The price dropped \$1250 each year. Write a function rule to model this situation. Define your variables.

EQ:

V = Value of painting Y = # yrs

a. In how many years will the painting be worth \$70,000?

$$70_{100} = 100000 - 1250 y$$

$$-100,000 = -100,000$$

$$-30,000 = -1250 y$$

$$-1250 = -1250$$

5. Use these two functions: $h(c) = c^2 - 4$ Find 2h(-3) - 4p(-2)

$$h(c) = c^2 - 4 \qquad and$$

$$p(a) = 7 - a$$

$$h(-3) = (-3)^2 - 4 = 9 - 4 = 5$$

4=24yrs

$$2h(-3) = 2(5) = 10$$

$$p(-2) = 7 - (-2) = 9$$

$$-4p(-2) = -4(9) = -36$$