

Algebra 1 Bellwork Thursday, May 12, 2016

1. State if each parabola opens up or down.

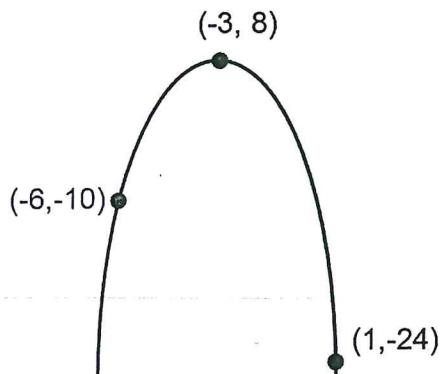
a) $y = -805x^2 + 9x - 7$

b) $y = 4x - x^2 + 3$

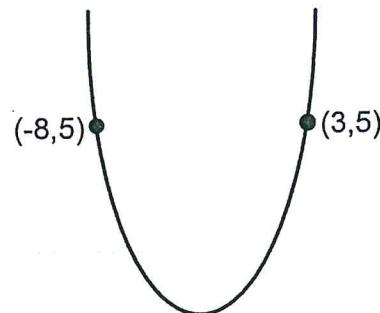
c) $y = 0.0013x^2 - 29x - 108$

2. The LOS of the quadratic equation $y = -3x^2 - 12x + 7$ is $x = -2$. State the coordinates of the vertex.

3. Find the coordinates of two other points on this parabola



4. Write the equation of the LOS of this parabola.



4. Is the vertex of each parabola a Maximum or a Minimum?

a) $y = 3.07x^2 + 13x - 49$

b) $y = x^2 - 270x$

c) $y = -6x^2 + 97$

1

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ANSWERS

1. State if each parabola opens up or down.

a) $y = -805x^2 + 9x - 7$

Neg

Down

b) $y = 4x - x^2 + 3$

Neg

Down

c) $y = 0.0013x^2 - 29x - 108$

Pos

Up

2. The LOS of the quadratic equation $y = -3x^2 - 12x + 7$ is $x = -2$. State the coordinates of the vertex.

$$\begin{aligned} -3(-2)^2 - 12(-2) + 7 \\ -12 + 24 + 7 = 19 \end{aligned}$$

(-2, 19)

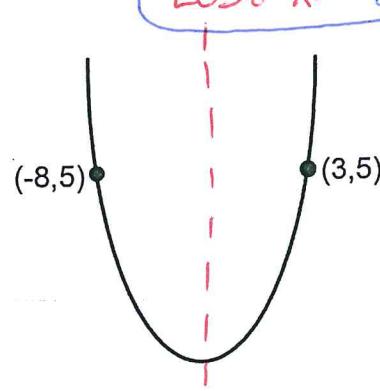
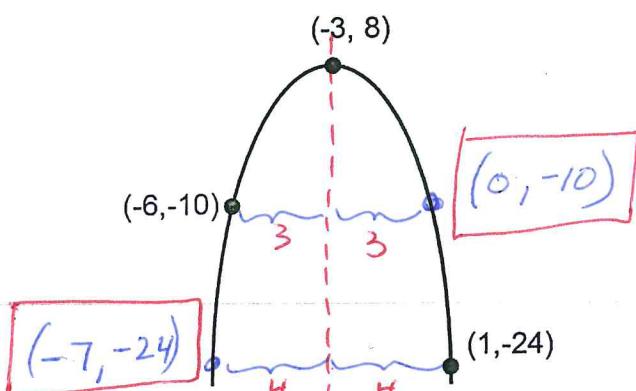
3. Find the coordinates of two other points on this parabola

4. Write the equation of the LOS of this parabola.

LOS: $x = -2.5$

Los is exactly halfway between these 2 pts.
Halfway between -8 & 3 is:

$$X = \frac{-8+3}{2} = -2.5$$



4. Is the vertex of each parabola a Maximum or a Minimum?

a) $y = 3.07x^2 + 13x - 49$

opens up

MIN

b) $y = x^2 - 270x$

opens up

MIN

c) $y = -6x^2 + 97$

opens down

Max

1