ANSWERS

Alg 1 Bellwork Monday, April 20, 2015

1. State if the vertex of each parabola is a Maximum or a Minimum.

a) $y = 0.014x^2 - 9x + 2$ ∪ MIN b) $y = -23x^2 + 6x - 10$ ∩ MAX c) $y = 108x^2 - 47x - 234$ ∪ MIN

2. Use the letter to place these quadratic equations in order from Narrowest to Widest.

A. $y = 4x^2 - 10x + 7$ B. $y = -9x^2 + x - 16$ C. $y = -1.3x^2 + 8x - 12$

D. $y = x^2 + 34x + 11$ E. $y = -5x^2 - 7$

BEACD

3. The vertex of a parabola is the point $(-4, 9)$, write the equation of the Line of Symmetry.

LOS: $x = -4$

4. The parabola $y = 2x^2 - 8x + 1$ has a Line of Symmetry $x = 2$. Give the coordinates of the vertex.

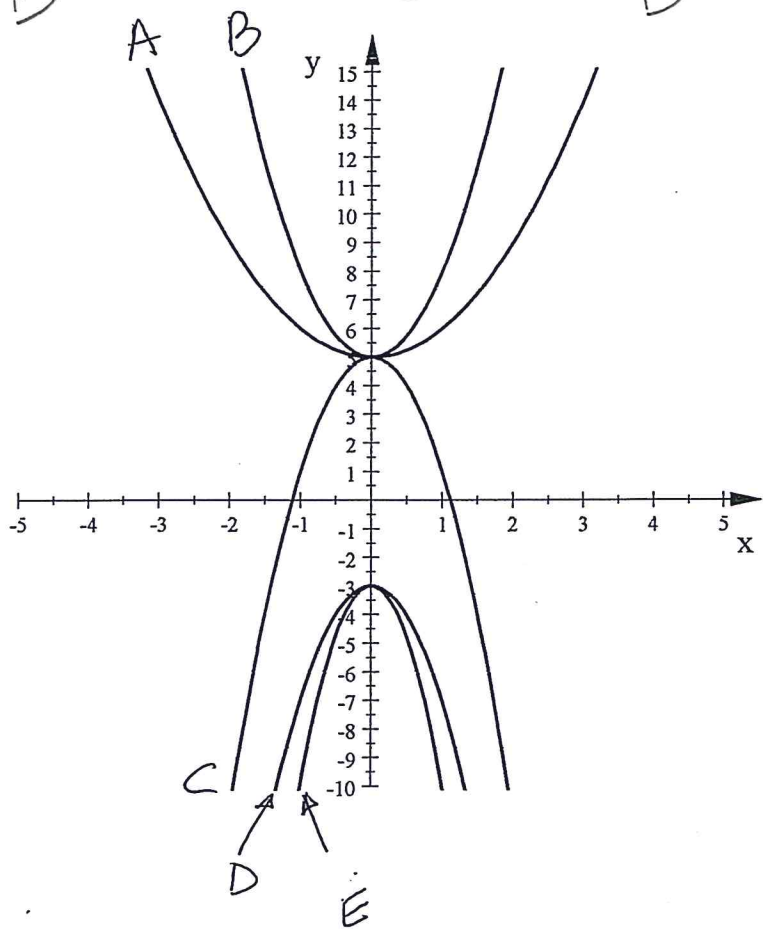
Vertex $(2, -7)$

$y = 2(2)^2 - 8(2) + 1$
$= 8 - 16 + 1$
$= -8 + 1 = -7$

5. Match the graphs to their equations:

a) $y = 3x^2 + 5$ b) $y = -4x^2 + 5$ c) $y = -4x^2 - 3$ d) $y = -7x^2 - 3$ e) $y = x^2 + 5$

B C D E A



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