

Graph Standard and Vertex Form of Quadratics

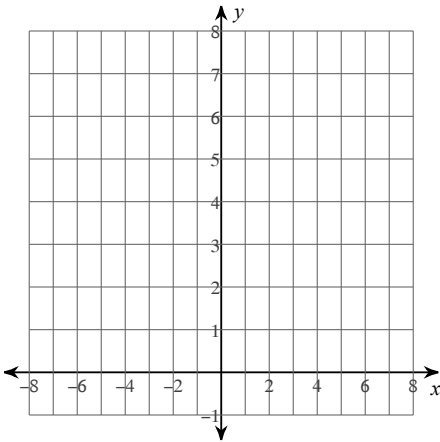
Date _____ Period _____

- a) Calculate the vertex (show work for the problems that are in Standard Form #1-5)
- b) Record the vertex in the blank provided. Make sure to write it as an ordered pair. For example (2,-3)
- c) Record the y-intercept in the blank provided (Show the calculation for it on #6-10). Make sure to write it as an ordered pair. For example (0,5)
- d) Graph the quadratic function using either a t-chart or the 1,4,9 shortcut from the May 4 lesson.

1) $y = x^2 - 6x + 11$

Vertex: _____

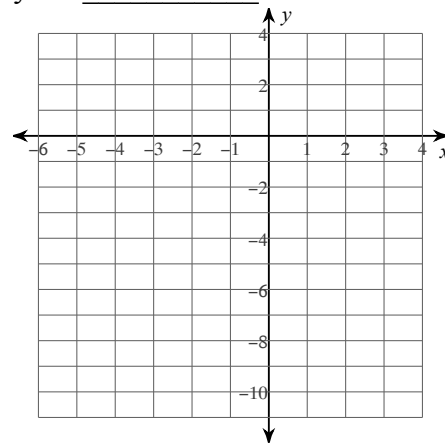
y-int: _____



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

Vertex: _____

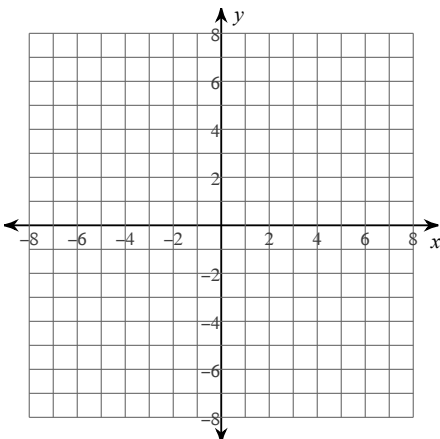
y-int: _____



3) $y = \frac{1}{2}x^2 - 2x + 3$

Vertex: _____

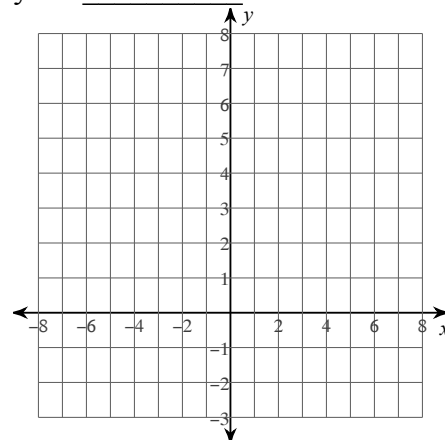
y-int: _____



4) $y = -2x^2 - 4x + 5$

Vertex: _____

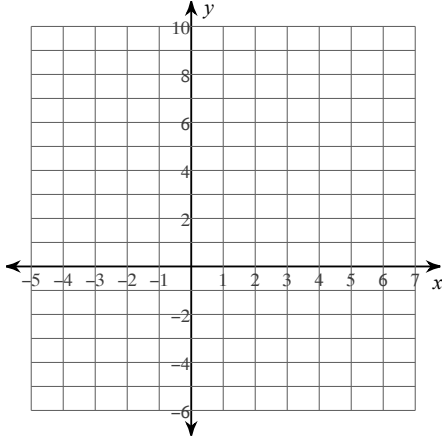
y-int: _____



5) $y = 3x^2 - 18x + 23$

Vertex: _____

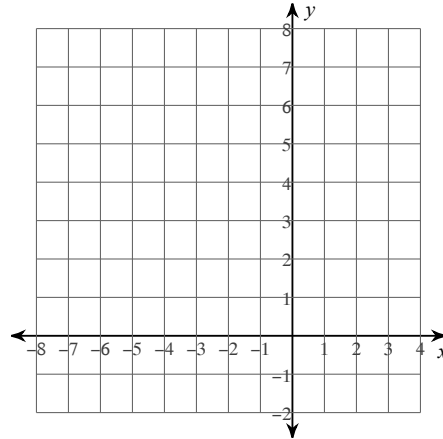
y-int: _____



6) $y = (x + 4)^2 + 3$

Vertex: _____

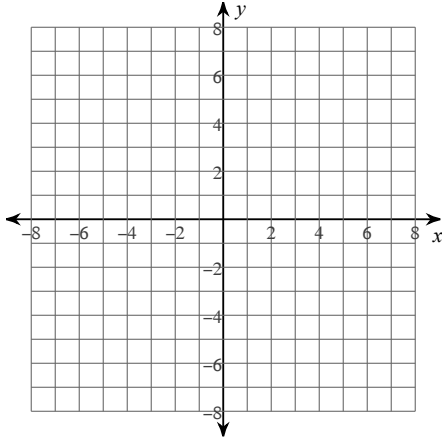
y-Int: _____



7) $y = -(x + 1)^2 + 1$

Vertex: _____

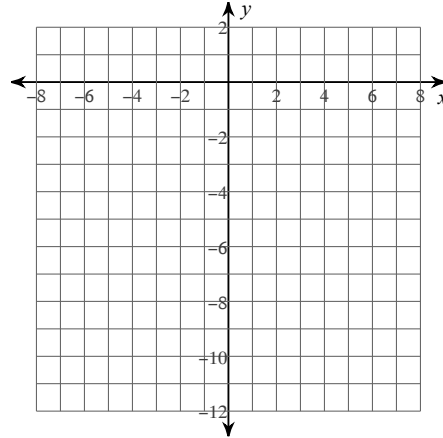
y-int: _____



8) $y = -2(x - 3)^2 - 2$

Vertex: _____

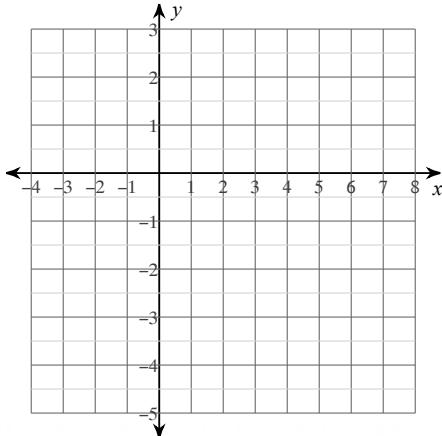
y-int: _____



9) $y = \frac{1}{2}(x - 2)^2 - 4$

Vertex: _____

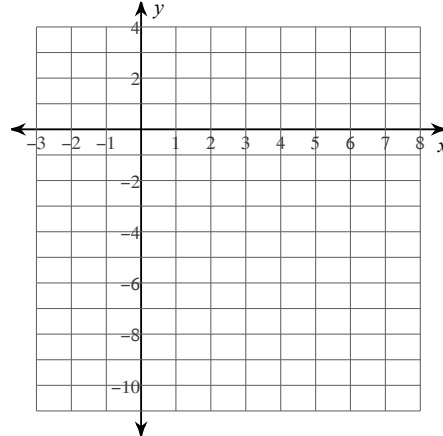
y-int: _____



10) $y = -3(x - 4)^2 + 3$

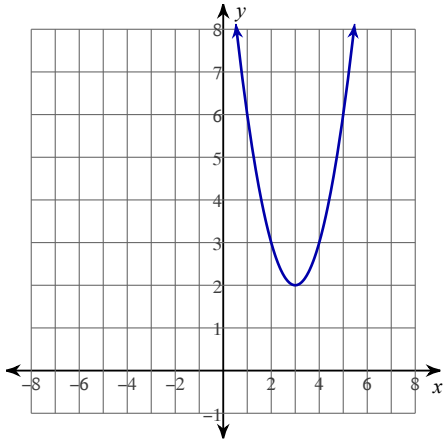
Vertex: _____

y-int: _____

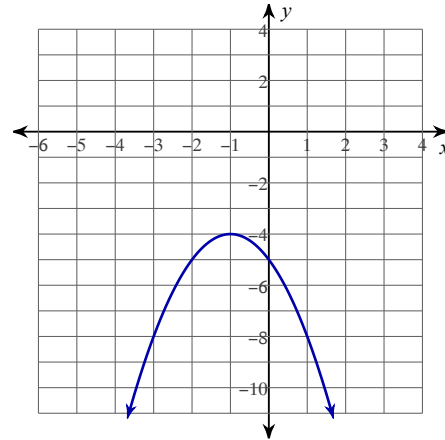


Answers to Graph Standard and Vertex Form of Quadratics (ID: 1)

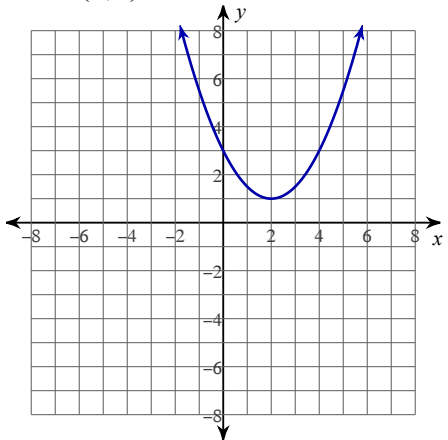
- 1) Vertex (3, 2)
y-int (0,11)



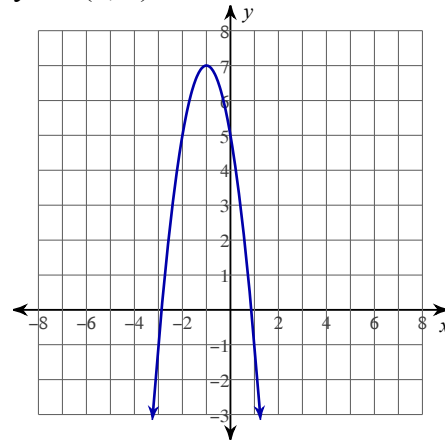
- 2) vertex (-1, -4)
y-int (0, -5)



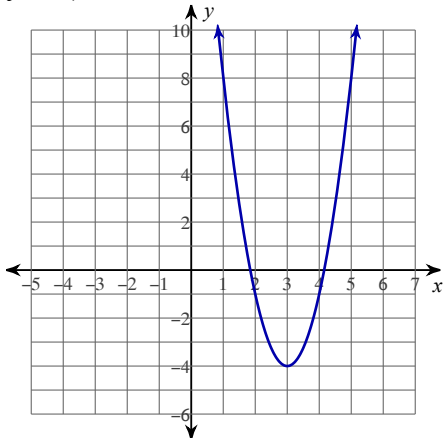
- 3) Vertex: (2, 1)
Y-int:(0,3)



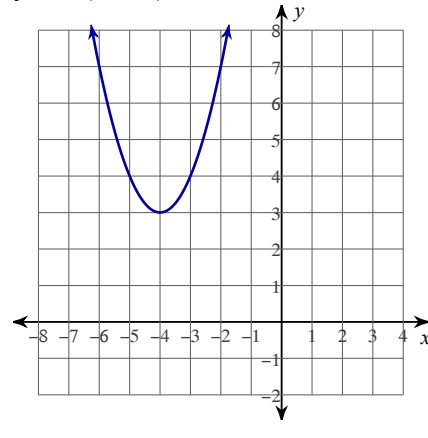
- 4) Vertex (-1, 7)
y-int (0, 5)



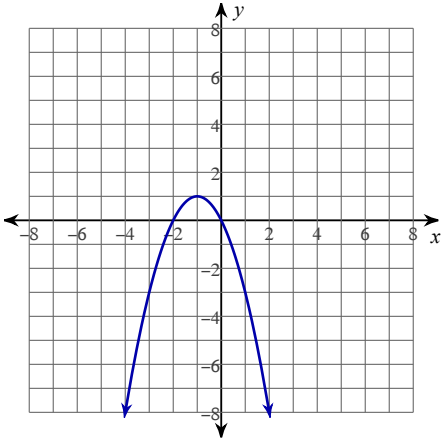
- 5) Vertex
yint (



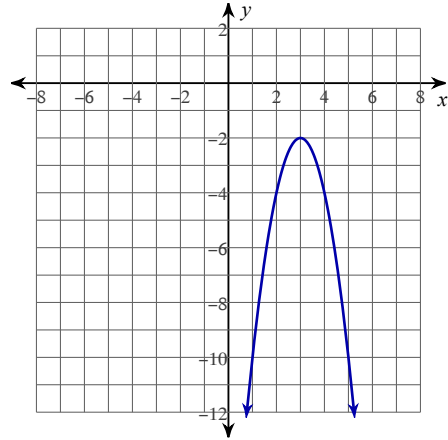
- 6) Vertex (-4, 3)
y-int (0, 19)



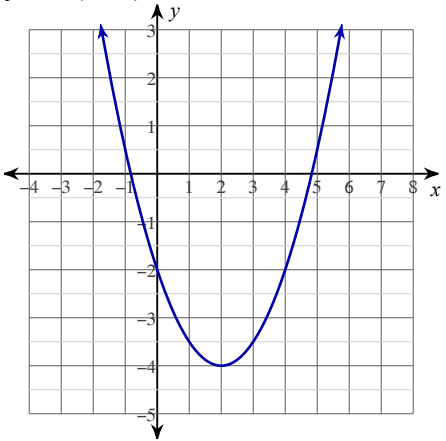
- 7) Vertex $(-1, 1)$
y-int $(0, 0)$



- 8) Vertex $(3, -2)$
y-int $(0, -20)$



- 9) Vertex $(2, -4)$
y-int $(0, -2)$



- 10) Vertex $(4, 3)$
y-int $(0, -45)$

