

Name: _____ Date: _____ Period: _____
Algebra 1B Unit 9 practice quiz Show your work, and write your answer in the answer box provided

Find the axis of symmetry and vertex in these parabolas

1) $y = 3x^2 + 5x - 1$

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

Find the coordinates of the y-intercept and one additional point

3) $y = 2x^2 + 13x - 6$

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

Change the following into the standard form of a parabola

5) $y = -3(x+7)^2 - 1$

6) $y = (x - 5)^2 + 3$

Find the zeros of the following parabolas

7) $y = 6x^2 - 42x + 72$

8) $y = x^2 + 5x - 7$

1) Axis of symmetry: _____

Vertex: _____

2) Axis of symmetry: _____

Vertex: _____

3) y-int: _____

Point 2: _____

4) y-int: _____

Point 2: _____

5) _____

6) _____

7) _____

8) _____

EC1) _____

EC2) _____

EC3) _____

Extra credit:

EC1) What are the coordinates of a y-intercept?

EC2) What is a zero in a parabola?

EC3) What are the coordinates of an x-intercept?