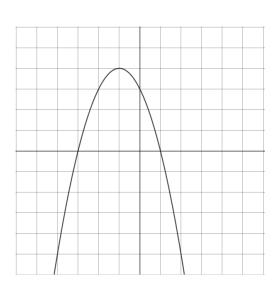
Pre-Calculus 11: Graphing Quadratics Quiz

Full credit will only be awarded for all work shown in a neat and organized manner.

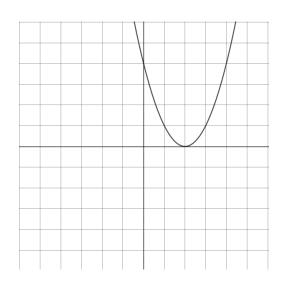
For each graph below, identify the:

- a) y-intercept
- b) x-intercept(s)
- c) axis of symmetry
- d) vertex
- e) range

1.



2.



- a) _____
- b) _____
- c) _____
- d) _____
- e) _____

- a) _____
- b) _____
- c) _____
- d) _____
- e)
- 3. A quadratic can be described with the equation: $f(x) = -2(x+4)^2 5$

DESCRIBE how the graph would change in appearance if we changed f(x) to:

a)
$$g(x) = \frac{1}{2}(x+4)^2 - 5$$

b)
$$g(x) = -2(x+8)^2 + 2$$

4 A	quadratic :	function	has the vert	ex (-3	5) and	nasses th	rough the	noint (4 -7)
┯. ┌	quadratic	Idilction	mas the vert	,,	J) and	passes tri	nough the	ponit	(T, /)

- a) Does the parabola open upwards or downwards? (**EXPLAIN** your answer)
- b) Find another point on the quadratic function

For each quadratic below, identify:

- a) y-intercept b) x-intercept(s)
- c) vertex
- d) range

$$5. f(x) = -4x^2 + 4x + 15$$

a)		

6.
$$f(x) = \frac{1}{9}(x+3)^2 + 1$$