

Name \_\_\_\_\_  
Alg1 Q4 Quiz 7 Review

May 3, 2019  
Graphing Quadratics

**For each parabola find the axis of symmetry, vertex, and roots:**

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

2)  $y = x^2 - x - 6$

AOS:  $x =$  \_\_\_\_\_

AOS: \_\_\_\_\_

Vertex: \_\_\_\_\_

Vertex: \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

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

4)  $y = 3x^2 - 3x - 6$

AOS:  $x =$  \_\_\_\_\_

AOS: \_\_\_\_\_

Vertex: \_\_\_\_\_

Vertex: \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

**For 5-8: Round all answers to the nearest hundredth:**

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

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

AOS:  $x =$  \_\_\_\_\_

AOS: \_\_\_\_\_

Vertex: \_\_\_\_\_

Vertex: \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

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

8)  $y = -x^2 + 5$  (be careful... what's b equal to?)

AOS:  $x =$  \_\_\_\_\_

AOS: \_\_\_\_\_

Vertex: \_\_\_\_\_

Vertex: \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

Roots: \_\_\_\_\_ and \_\_\_\_\_

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- 9) a) Graph:  $y = -x^2 + 7x - 6$   
b) Is the vertex a minimum or maximum?  
c) Find the axis of symmetry.  
d) Find the vertex.  
e) Find the roots.

- 10) a) Graph:  $y = 3x^2 + x - 5$   
b) Is the vertex a min. or max.?  
c) Find the axis of symmetry.  
d) Find the vertex.  
e) Find the roots.

