

## Properties of Quadratic Function

Find the properties of each quadratic function.

1)  $f(x) = 4x^2 - 8x + 3$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

 $x$ -intercepts : \_\_\_\_\_ $y$ -intercept : \_\_\_\_\_

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

Minimum value : \_\_\_\_\_

Axis of symmetry : \_\_\_\_\_

Open up or down : \_\_\_\_\_

3)  $f(x) = -3x^2 + 2x + 8$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

 $x$ -intercepts : \_\_\_\_\_ $y$ -intercept : \_\_\_\_\_

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

Maximum value : \_\_\_\_\_

Axis of symmetry : \_\_\_\_\_

Open up or down : \_\_\_\_\_

2)  $f(x) = -x^2 - 6x + 7$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

 $x$ -intercepts : \_\_\_\_\_ $y$ -intercept : \_\_\_\_\_

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

Minimum value : \_\_\_\_\_

Axis of symmetry : \_\_\_\_\_

Open up or down : \_\_\_\_\_

$f(x) = -3x^2 + 2x + 8$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

 $x$ -intercepts : \_\_\_\_\_ $y$ -intercept : \_\_\_\_\_

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

Minimum value : \_\_\_\_\_

Axis of symmetry : \_\_\_\_\_

Open up or down : \_\_\_\_\_

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