

Lesson 5.7-Transformations with Quadratic Functions

The quadratic function $y = ax^2 + bx + c$ is written in **standard form**. Two other useful forms for quadratic functions are given below.

VERTEX AND INTERCEPT FORMS OF A QUADRATIC FUNCTION

FORM OF QUADRATIC FUNCTION

Vertex form: $y = a(x - h)^2 + k$

Intercept form: $y = a(x - p)(x - q)$

For both forms, the graph opens up if $a > 0$ and opens down if $a < 0$.

CHARACTERISTICS OF GRAPH

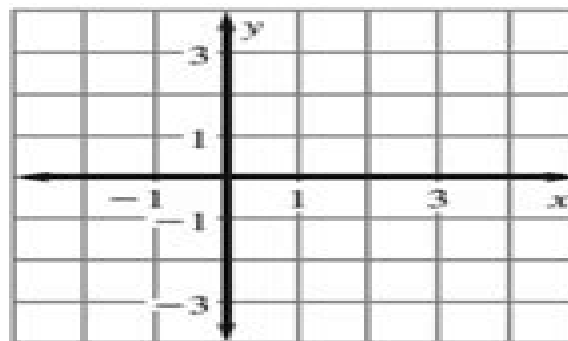
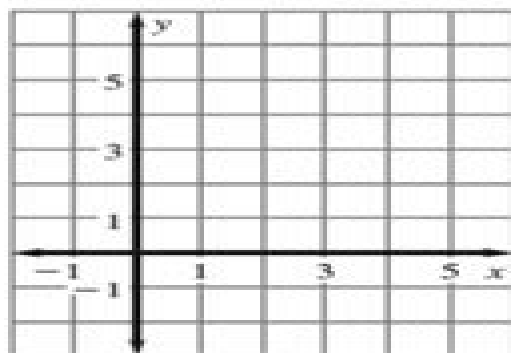
The vertex is (h, k) .

The axis of symmetry is $x = h$.

The x -intercepts are p and q .

The axis of symmetry is halfway between $(p, 0)$ and $(q, 0)$.

Graph $y = 2(x - 3)^2 - 2$. Graph $y = (x - 3)(x - 1)$.



Transformation With Quadratic Functions Key Unit

Lesson 03

Jin-Ying Zhang



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