

QUADRATIC FUNCTION

The graph of a quadratic function is a parabola.

The quadratic function is a polynomial function of degree two.

To determine if a relation is a quadratic function from a table of values, find the second differences. If they are equal, then the relation is a quadratic function.

The equation of a quadratic function can be written in two ways:

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

2. Standard form $y = ax^2 + bx + c$

Graphing a Quadratic Function

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

- Vertex (h, k)
- axis of symmetry is $x = h$
- $a > 0$, parabola opens up, minimum value of k
- $a < 0$, parabola opens down, maximum value of k
- a determines the shape of the parabola
 - $|a| > 1$, there is a vertical stretch of factor a
 - $0 < |a| < 1$, there is a vertical compression of factor a
 - $a < 0$, there is a reflection in the x -axis
 - multiply the step pattern, 1, 3, 5 by a to get your new step pattern $a, 3a, 5a$

Base Curve: $y = x^2$

eqd

Vertex

Direction of Opening

Axis of Symmetry

Maximum or Minimum

Maximum or Minimum Value

Step Pattern

Graph

$$y = x^2$$

$(0, 0)$

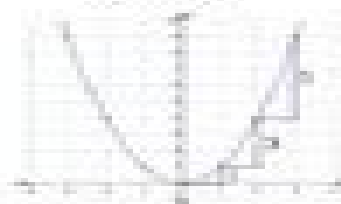
up

$x = 0$

minimum

0

1, 3, 5



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

$(-3, -1)$

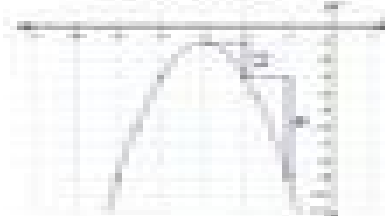
down

$x = -3$

maximum

-1

-2, -6, -10



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Rachel Sandford



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