

Key concepts of Quadratic Functions and Inequalities.

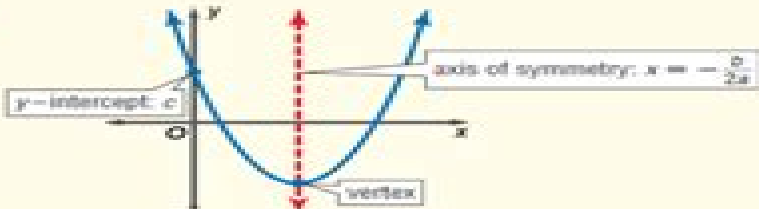
Koram Samuel Sakyi "

School of Mechanical Engineering, SJTU, Shanghai 200240, China.

Abstract.

A quadratic function is a function whose rule may be written in the form $f(x) = ax^2 + bx + c$ where a , b , and c are real numbers and a is not zero. The graph of a quadratic function is a parabola which opens up if $a > 0$ and opens down if $a < 0$. Nonetheless, there are many key features in a quadratic graph such as the zeroes (x-intercepts, also known as the roots), y-intercept, axis of symmetry, and the vertex. We will be taking a look at these four features in this presentation. The zeroes, also known as the roots, are the x-intercepts of the parabola. A parabola with its vertex at (h, k) , opening vertically, will have the following properties. The axis of symmetry will have the equation $x = h$. Its form will be $y = a(x - h)^2 + k$. In either case, the vertex is a turning point on the graph. The graph is also symmetric with a vertical line drawn through the vertex, called the axis of symmetry. The y-intercept is the point at which the parabola crosses the y-axis. The x-intercepts are the points at which the parabola crosses the x-axis.

Key Concept - Graph of a Quadratic Function.

Key Concept	Graph of a Quadratic Function
Words Consider the graph of $y = ax^2 + bx + c$, where $a \neq 0$. - The y-intercept is $a(0)^2 + b(0) + c$ or c. - The equation of the axis of symmetry is $x = -\frac{b}{2a}$. - The x-coordinate of the vertex is $-\frac{b}{2a}$. Model	 The diagram shows a coordinate plane with a blue parabola opening upwards. The y-axis is labeled 'y' and the x-axis is labeled 'x'. The origin is labeled 'O'. A label 'y-intercept: c' points to the point where the parabola crosses the y-axis. A vertical dashed red line represents the axis of symmetry, with a label 'axis of symmetry: $x = -\frac{b}{2a}$' pointing to it. The lowest point of the parabola is labeled 'vertex'. Autodesk WinEdt Get the PC software for Autodesk WinEdt

Note that:

1. y-intercept = c .
2. $f(x) = y$.
3. $f(x) = ax^2 + bx + c$.
4. the x-coordinate of the vertex is $-b/2a$.
5. the equation of the axis of symmetry is $x = -b/2a$.

Key Concepts Quadratic Equations

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