

3.3 Analyzing Graphs of Quadratic Functions

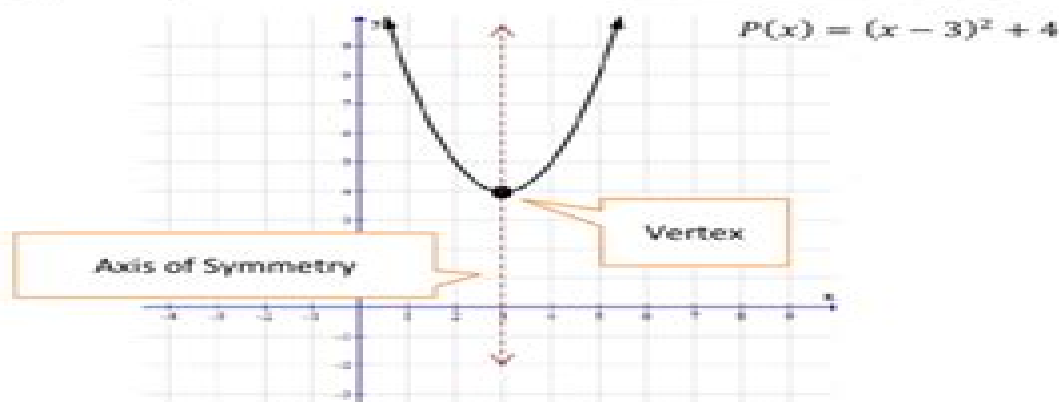
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Recall from our section on transformations that $g(x) = a(x - h)^2 + k$ is the graph of $f(x) = x^2$ stretched or shrunk, shifted horizontally and shifted vertically. In the form $g(x) = a(x - h)^2 + k$ we know exactly where the vertex is, just by reading.

We call $P(x) = a(x - h)^2 + k$ the "vertex form" of a quadratic function.

Graphs of Quadratic Functions

The graph of a quadratic function is called a _____.



Consider the graph of $P(x) = a(x - h)^2 + k$, $a \neq 0$

- The graph is a parabola with vertex _____, and vertical line _____ as axis of symmetry.
- The graph opens upward if _____ and downward if _____.
- The graph is wider than the graph of $y = x^2$ if _____ and narrower than the graph of $y = x^2$ if _____.

Vertex Formula

Vertex of a Parabola: The vertex of the graph of $P(x) = ax^2 + bx + c$ is: $\left(-\frac{b}{2a}, f\left(-\frac{b}{2a}\right)\right)$

Example: Find the vertex of $P(x) = x^2 - 6x + 13$ and rewrite in vertex form.

Analyzing Graphs Of Quadratic Functions Answers

Yi-Tong Ma



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