

Chapter 3 Quadratic Functions

Section 3.1 Investigating Quadratic Functions in Vertex Form

Section 3.1 Page 157 Question 1

a) The graph of $f(x) = 7x^2$ will open upward and be narrower than the graph of $f(x) = x^2$, since $a > 1$. The parabola will have a minimum value and a range of $\{y \mid y \geq 0, y \in \mathbb{R}\}$.

b) The graph of $f(x) = \frac{1}{6}x^2$ will open upward and be wider than the graph of $f(x) = x^2$, since $0 < a < 1$. The parabola will have a minimum value and a range of $\{y \mid y \geq 0, y \in \mathbb{R}\}$.

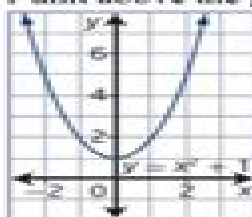
c) The graph of $f(x) = -4x^2$ will open downward and be narrower than the graph of $f(x) = x^2$, since $a < -1$. The parabola will have a maximum value and a range of $\{y \mid y \leq 0, y \in \mathbb{R}\}$.

d) The graph of $f(x) = -0.2x^2$ will open downward and be wider than the graph of $f(x) = x^2$, since $-1 < a < 0$. The parabola will have a maximum value and a range of $\{y \mid y \leq 0, y \in \mathbb{R}\}$.

Section 3.1 Page 157 Question 2

a) $y = x^2$ and $y = x^2 + 1$

The shapes of the graphs are the same. Since $q = 1$ for $y = x^2 + 1$, its graph is translated 1 unit above the graph of $y = x^2$.



vertex: $(0, 1)$
axis of symmetry: $x = 0$
domain: $\{x \mid x \in \mathbb{R}\}$
range: $\{y \mid y \geq 1, y \in \mathbb{R}\}$
 x -intercepts: none
 y -intercept: 1

b) $y = x^2$ and $y = (x - 2)^2$

The shapes of the graphs are the same. Since $p = 2$ for $y = (x - 2)^2$, its graph is translated 2 units to the right of the graph of $y = x^2$.

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