

## 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  $\{y \mid y \geq 0, y \in \mathbb{R}\}$ .

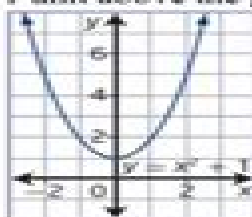
c) The graph of  $f(x) = -4x^2$  will open downward and be narrower than the graph of  $f(x) = x^2$ , since  $a < -1$ . The parabola will have a maximum value and a range of  $\{y \mid y \leq 0, y \in \mathbb{R}\}$ .

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  $y = x^2$ .

# Mhr Functions 11chapter 4 Solutions

**J Elliott**



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Order: Salientia Family: Pelobatidae (spadefoots) Other common name: spadefoot toad. Spanish names: sapo con espuelas ...  
Spadefoot toad | burrowing, nocturnal, desert 3 days ago — All spadefoot toads are classified in the family Pelobatidae.  
Spadefoot toads have a broad, horny “spade” projecting from the inside of each Pelobatidae - European Spadefoot Toad  
Family - Apr 21, 2017 — The family Pelobatidae is the European Spadefoot toads but they aren't just found in Europe, they are also found in Asia and Northern Africa.