#### **EXTRA PRACTICE** — Exercises

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Unit IX - The Conic Sections

## Part A - Parabolas - The Quadratic Function

## Lesson 2 - Parabolas

Graph the solution set for each of the following second degree equations. In addition, identify the vertex and the axis of symmetry, and note whether the graph opens up or down.

1. 
$$y = \frac{1}{3}x^2$$

$$y = 4x^2$$

3. 
$$y = \frac{1}{4}x^2$$

4. 
$$y = \frac{1}{2}x^2$$

5. 
$$y = \frac{2}{3}x^2$$

6. 
$$y = \frac{3}{2}x^2$$

#### **EXTRA PRACTICE** — Answer Key

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# Unit IX – The Conic Sections Part A – Parabolas - The Quadratic Function Lesson 2 – Parabolas

Graph the solution set for each of the following second degree equations. In addition, identify the vertex and the axis of symmetry, and note whether the graph opens up or down.

