## EXTRA PRACTICE - Exercises

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## Unit IX - The Conic Sections <br> Part A - Parabolas - The Quadratic Function <br> Lesson 3 - Parabolas, $\mathrm{y}=(\mathrm{x}-\mathrm{h})^{2}$

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. $y=(x-4)^{2}$
2. $y=(x-3)^{2}$
3. $y=(x+8)^{2}$
4. $y=(x+2)^{2}$
5. $y=(x+1)^{2}$

## Unit IX - The Conic Sections Part A - Parabolas - The Quadratic Function Lesson 3 - Parabolas, $y=(x-h)^{2}$

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. vertex: $(-8,0)$

Axis of Symmetry: $x=-8$ Opens Up

2. vertex: $(8,0)$

Axis of Symmetry: $x=8$
Opens Up
4. vertex: $(5,0)$

Axis of Symmetry: $x=5$
Opens Up


Opens Up

5. vertex: $\left(\begin{array}{ll}-\frac{5}{2} & 0)\end{array}\right.$

Axis of Symmetry: $x=-2 \frac{1}{2}$
Opens Up


