

# Guided Lesson Notes

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Quadratic Formula and Discriminant

**Directions:** Complete this study guide as you move through the lesson. By taking notes, you are more likely to remember what you are learning. The completed study guide can be used to complete practice activities and to prepare for quizzes and exams. Be sure to save each study guide so you can access it when you need it.

### Essential Vocabulary

As you encounter these mathematical terms from within the lesson, enter the meaning and an example (or two) for each of the terms. You can even draw a picture. If there are other unfamiliar words you find, enter them in the blank spaces provided.

<i>quadratic equation</i>	<i>standard form of a quadratic equation</i>
<i>quadratic formula</i>	<i>discriminant</i>
<i>root</i>	<i>solution</i>

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## Writing Quadratic Equations in Standard Form

Write the equation  $x^2 + 8x = -12$  in standard form. Then identify the values of  $a$ ,  $b$ , and  $c$ .