## Unit 7 Lesson 16: The Quadratic Formula

### 1 Evaluate It (Warm up)

#### Student Task Statement

Each expression represents two numbers. Evaluate the expressions and find the two numbers.

### 2 Pesky Equations

#### Student Task Statement

Choose one equation to solve, either by rewriting it in factored form or by completing the square. Be prepared to explain your choice of method.

### 3 Meet the Quadratic Formula

#### Student Task Statement

Here is a formula called the **quadratic formula**.

The formula can be used to find the solutions to any quadratic equation in the form of , where , , and are numbers and is not 0.

This example shows how it is used to solve , in which , , and .

Here are some quadratic equations and their solutions. Use the quadratic formula to show that the solutions are correct.

1. . The solutions are and .
2. . The solutions are and .
3. . The solutions are .
4. . The solutions are .
5. . The solution is .
6. . The solutions are and .



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