

## Explain 2 Solving a Real-world Problem with a Rational Equation

Rational equations are used to model real-world situations. These equations can be solved algebraically.

**Example 2** Use a rational equation to solve the problem.

- 2 Kelsey is kayaking on a river. She travels 5 miles upstream and 5 miles downstream in a total of 6 hours. In still water, Kelsey can travel at an average speed of 3 miles per hour. What is the average speed of the river's current?



### Analyze Information

Identify the important information:

- The answer will be the average speed of the current.
- Kelsey spends 6 hours kayaking.
- She travels 5 miles upstream and 5 miles downstream.
- Her average speed in still water is 3 miles per hour.

### Formulate a Plan

Let  $c$  represent the speed of the current in miles per hour. When Kelsey is going upstream, her speed is equal to her speed in still water minus  $c$ . When Kelsey is going downstream, her speed is equal to her speed in still water plus  $c$ .

The variable  $c$  is restricted to positive real numbers.

Complete the table.

	Distance (mi)	Average speed (mi/h)	Time (h)
Upstream	5	$3 - c$	$\frac{5}{3 - c}$
Downstream	5	$3 + c$	$\frac{5}{3 + c}$

Use the results from the table to write an equation.  
total time = time upstream + time downstream

$$6 = \frac{5}{3 - c} + \frac{5}{3 + c}$$

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## EXPLAIN 2

### Solving a Real-World Problem with a Rational Equation

#### AVOID COMMON ERRORS

Students may need to be reminded to check to see whether the solutions of their equations are extraneous solutions. Remind them to also consider restrictions that are imposed on the variable due to the context of the application.

#### QUESTIONING STRATEGIES

**?** How could you solve the problem graphically? **Graph each side of the equation as a function and find the points of intersection of the two graphs. The  $x$ -values of the points of intersection will be the solutions of the equation.**

## DIFFERENTIATE INSTRUCTION

### Multiple Representations

Point out to students that they can use the table feature of a graphing calculator to check their solutions to rational equations. They can enter the left side of the equation as Y1 and the right side as Y2. Then, by using the table feature, they can verify that Y1 and Y2 have the same values of  $x$  that they determined by using algebra.

# Tescccc Algebra 2 Unit 4 Lesson 2 Exploring Equations

**D Keegan**



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