Algebra 2 w/ Trig

5.6 Solve Rational Equations

Warm-Up:

Solve the equation.

 

 

**5. How much peroxide is there in** 30 **liters of a** 45% **peroxide solution?**

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Example 1: Solve a Rational Equation by Cross Multiplying YOU TRY

 

 

Example 2: Multiple Choice!!!



Example 3: Solve a Rational Equation with Two Solutions



Example 4: Check for Extraneous Solutions



YOU TRY:

**Solve the equation by using the** *LCD***. Check for extraneous solutions.**

 

 

 

Example 5: Solve a Rational Equation Given a Function

**From** 1995 **through** 2003**, the annual sales** *S***(in billions of dollars) of entertainment software can be modeled by**



**where** *t***is the number of years since** 1995**. For which year were the total sales of entertainment software about** $5.3 **billion?**

YOU TRY:

**10.** **What If? Use the information in Example** 6 **to determine in which year the total sales of entertainment software were about** $4.5 **billion.**

KEEP GOING:

**Solve the following equations.**

 

 

**5. So far this season, a baseball team has won** 36 **of its** **first** 64 **games. How many consecutive games does the need to win to raise its winning percentage to** 60%**?**

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