

Section 6.6: Solving Equations Using Rational Expressions

Wednesday, November 13, 2013
10:13 AM

solve

$$10x \left(\frac{3}{x} + \frac{1}{5} \right) = \left(\frac{1}{2} \right) \cdot 10x$$

LCD: $10x$

$$30 + 2x = 5x$$

$$30 = 3x$$

$$x = 10$$

$\{10\}$

check: $\frac{3}{10} + \frac{1}{5} = \frac{1}{2}$

$$\frac{3}{10} + \frac{2}{10} = \frac{5}{10} \checkmark$$