

8-6A Solving Rational Equations

Example with Fractions

$$\frac{5}{6}x + \frac{2}{3} = 2 - \frac{3}{4}x$$

rational equation:

solving rational equations

- factor every _____ and find the _____
- multiply both sides by the _____
- solve the equation as usual.
- eliminate any _____ that are _____

Solve.

$$1. \quad \frac{6}{7} - \frac{3}{x-4} = \frac{7}{8}$$

Solve.

$$2. \quad \frac{2x}{x+5} - \frac{x^2 - x - 10}{x^2 + 8x + 15} = \frac{3}{x+3}$$

Solve.

$$3. \quad \frac{2}{z+1} - \frac{1}{z-1} = \frac{-2}{z^2-1}$$

Attachments

9-2HW.notebook