

Solving Rational Equations

Solve each equation. Remember to check for extraneous solutions.

1) $\frac{4r+2}{5r} = \frac{1}{5r} + \frac{r-4}{5r} = \frac{4r+2}{5r}$ 2) $\frac{3x+9}{x^2} = \frac{3}{2x} + \frac{1}{2x}$

$$4r^2 + 2r = r + r^2 - 4r$$

$$3r^2 - r = -6$$

$$2r^2 = \frac{-6}{2}$$

$r = -3 \quad r \neq 0$

3) $\frac{1}{x} = \frac{x+3}{3} - \frac{1}{3}$

4) $\frac{1}{2} - \frac{k+6}{6k} = \frac{2k^2 - 8k + 6}{k}$

5) $\frac{a+5}{3a^2 + 15a - 18} = \frac{3}{a+6} - \frac{a+4}{a^2 + 5a - 6}$

6) $\frac{2}{b+1} - \frac{1}{b^2 + 5b + 4} + \frac{5b-20}{b^2 + 5b + 4}$

7) $\frac{1}{v^2 + 9v + 20} = \frac{4}{v^2 + 9v + 20} - \frac{v+3}{v+4}$

8) $\frac{1}{n+5} - \frac{4}{n^2 + 5n} = \frac{n^2 - 10n + 24}{n^2 + 5n}$

Simplify each expression.

9) $\frac{5}{x+4} + \frac{5}{x-3}$

10) $\frac{6r}{3r+9} - \frac{4}{3}$

Mathbits Rational Equations Answers

A Loxley



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