



6.4 EQUATIONS INVOLVING RATIONAL EXPRESSIONS

Solving Rational Equations

1. Clear equations of fractions using a common denominator.
2. Solve “new” or equivalent equation.
3. Check all solutions watching for undefined solutions. That is, when the denominator goes to 0.

Examples

1. $x/4 - x/6 = 1/8$

2. $10/x - x = 3$

3. $5/(y+1) = 4/(y+2)$

4. $10/(x^2-25) - 1/(x-5) = 3/x+5$

5. $3x/(x-4) = 2x/(x-3) + 6/(x^2-7x+12)$