6.4 EQUATIONS INVOLVING RATIONAL EXPRESSIONS
Solving Rational Equations

2. Solve “new” or equivalent equation.
3. Check all solutions watching for undefined solutions. That is, when the denominator goes to 0.
Examples

1. \( \frac{x}{4} - \frac{x}{6} = \frac{1}{8} \)
2. \( \frac{10}{x} - x = 3 \)
3. \( \frac{5}{y+1} = \frac{4}{y+2} \)
4. \( \frac{10}{x^2-25} - \frac{1}{x-5} = \frac{3}{x+5} \)
5. \( \frac{3x}{x-4} = \frac{2x}{x-3} + \frac{6}{x^2-7x+12} \)