

**Solving Rational Equations 1**

**Solve each equation. Remember to check for extraneous solutions.**

1)  $\frac{2}{x^2} + \frac{x+2}{x^2} = \frac{2}{x^2}$

2)  $\frac{1}{x} + \frac{1}{x} = \frac{x+2}{x}$

3)  $\frac{1}{x^2} + \frac{x+2}{x^2} = \frac{1}{x^2}$

4)  $\frac{4}{x^2} + \frac{1}{x} = \frac{1}{x^2}$

5)  $\frac{2x+22}{x^2} = \frac{1}{x} + \frac{x+2}{x^2}$

6)  $\frac{1}{x^2} + \frac{2}{x} = \frac{x+2}{x^2}$

7)  $\frac{x+2}{x} + \frac{x+2}{x} = 1$

8)  $\frac{1}{x} + \frac{1}{x^2} = \frac{1}{x}$

9)  $\frac{2x+22}{x^2} = \frac{1}{x} + \frac{2}{x}$

10)  $\frac{1}{x} + \frac{x+2}{x^2} = \frac{1}{x}$