

**HW Worksheet 8.6**  
**Solving Rational Equations – Algebra 2**

**Solve. Check for extraneous solutions.**

1. $\frac{9}{3x} = \frac{4}{x+2}$	2. $\frac{8}{3x-2} = \frac{2}{x-1}$
3. $\frac{x-3}{x+5} = \frac{x}{x+2}$	4. $\frac{4(x-4)}{x^2 - +2x -8} = \frac{4}{x+4}$
5. $\frac{2}{3x} + \frac{1}{6} = \frac{4}{3x}$	6. $\frac{1}{2x} + \frac{3}{x+7} = \frac{-1}{x}$
7. $\frac{5}{x^2 + x -6} = 2 + \frac{x-3}{x-2}$	8. $\frac{2}{x-3} + \frac{1}{x} = \frac{x-1}{x-3}$
9. $\frac{10}{x} + 3 = \frac{x+9}{x-4}$	10. $\frac{x+3}{x-3} + \frac{x}{x-5} = \frac{x+5}{x-5}$