Name_____

# Solving Rational Equations

Date_____ Period____

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

1) $\frac{1}{6k^2} = \frac{1}{3k^2} - \frac{1}{k}$

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

5) $\frac{1}{x} = \frac{6}{5x} + 1$

7) $\frac{1}{v} + \frac{3v+12}{v^2-5v} = \frac{7v-56}{v^2-5v}$

9) $\frac{1}{n-8} - 1 = \frac{7}{n-8}$

11) $1 = \frac{v+2}{v-4} + \frac{7v-42}{v-4}$

13) $1 + \frac{x^2-5x-24}{3x} = \frac{x-6}{3x}$

15) $\frac{n+5}{n+8} = 1 + \frac{6}{n+1}$

17) $\frac{1}{x^2-5x} = \frac{x+7}{x} - 1$

19) $\frac{p+5}{p^2+p} = \frac{1}{p^2+p} - \frac{p-6}{p+1}$