

# 8-6 B

## Solving Rational Equations

Solve each equation. Remember to check for extraneous solutions.

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

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

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

4)  $\frac{b+6}{4b^2} + \frac{3}{2b^2} = \frac{b+4}{2b^2}$

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

6)  $\frac{1}{6x^2} = \frac{1}{2x} + \frac{7}{6x^2}$

7)  $\frac{1}{r-2} + \frac{1}{r^2-7r+10} = \frac{6}{r-2}$

8)  $\frac{1}{m^2-m} + \frac{1}{m} = \frac{5}{m^2-m}$

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

10)  $\frac{1}{r-2} + \frac{1}{r^2-7r+10} = \frac{6}{r-2}$