

Section 5.6 and 5.9 Quiz Review

Date _____ Period _____

Simplify each expression.

1) $\frac{4}{2u} + \frac{2}{4}$

2) $\frac{2}{a-2} - \frac{3a}{5a-3}$

3) $\frac{v+1}{2(v-2)} - \frac{2v}{3}$

4) $\frac{1}{x^2-5x+6} + \frac{2}{x-3}$

5) $\frac{6v}{9v-12} + \frac{2v}{9v^2-16}$

Solve each equation. Remember to check for extraneous solutions.

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

$$7) \frac{4}{v} + \frac{v+4}{2v} = 3$$

$$8) \frac{2}{a} + \frac{a+5}{3a^3} = \frac{2a+12}{3a^3}$$

$$9) \frac{1}{a^2 + 11a + 30} - \frac{1}{a+6} = \frac{4}{a^2 + 11a + 30}$$

$$10) \frac{1}{x-5} = 6 - \frac{1}{x^2 - 11x + 30}$$