

5.4 and 5.5 Quiz Review

Date _____ Period _____

Simplify each and state the excluded values.

1) $\frac{v^2 + 9v + 20}{v^2 - v - 30}$

2) $\frac{20p^2 + 36p}{8p^2 + 20p}$

3) $\frac{x^2 - 2x - 8}{8x + 16}$

4) $\frac{m^2 + 7m - 8}{m^2 - 8m + 7}$

5) $\frac{m^2 + 11m + 18}{m^2 - 8m - 20}$

Simplify each expression.

$$6) \frac{8p^2 - 16p}{p^2 - 2p - 63} \cdot \frac{1}{8p}$$

$$7) \frac{x^2 + x - 56}{x + 8} \cdot \frac{x + 8}{x - 7}$$

$$8) \frac{6}{10r^2 + 4r} \cdot \frac{10r^2 + 4r}{10}$$

$$9) \frac{6v + 12}{v + 2} \div \frac{1}{4v}$$

$$10) \frac{1}{n + 1} \div \frac{1 - n}{2n - 2}$$