

Worksheet #1 Lesson 5.2

Simplify. Identify any x - values for which the expression is undefined.

1) $\frac{24v}{20v^3}$

2) $\frac{54n^2}{24n^3}$

3) $\frac{r-1}{r^2-3r+2}$

4) $\frac{b^2-2b+1}{b-1}$

5) $\frac{x^2+7x+10}{x^2+4x+4}$

6) $\frac{4k-32}{3k^2-20k-32}$

Multiply. Assume that all expressions are defined.

$$7) \frac{2x}{7} \cdot \frac{10x}{8}$$

$$8) \frac{x-3}{x^2+4x-21} \cdot \frac{8x+56}{4}$$

$$9) \frac{2n^3-18n^2}{2n^2} \cdot \frac{n+1}{n-9}$$

$$10) \frac{p^2+7p+12}{5} \cdot \frac{1}{p+3}$$

$$11) \frac{n^2-3n-40}{n^2-5n-50} \cdot \frac{n-10}{n-9}$$

$$12) \frac{x+4}{x^2+6x+8} \cdot \frac{x^2+9x+14}{10x}$$