

Worksheet #2 Lesson 5.2

Divide. Assume that all expressions are defined.

1) $\frac{4k}{8k^2} \div \frac{6}{3k^3}$

2) $\frac{x^2+2x-80}{x^2-2x-48} \div \frac{x-4}{x+6}$

3) $\frac{1}{m+7} \div \frac{7m^2}{m^2+6m-7}$

4) $\frac{3b}{b-7} \div \frac{15b^2-21b}{45b-63}$

5) $\frac{m+3}{8} \div \frac{7m+3}{56m+24}$

6) $\frac{5n-4}{5n^2-14n+8} \div \frac{3}{5n}$

Solve. Check your solutions.

$$7) \frac{m^2 + 13m + 40}{m+5} = 4$$

$$8) \frac{r^2 + 2r - 35}{r+7} = -12$$

$$9) \frac{x^2 + 7x}{x} = 7$$

$$10) \frac{2n^2 + 15n + 7}{n+7} = -3$$

$$11) \frac{5r^2 + 27r + 10}{(5r+2)} = 6$$

$$12) \frac{5v^2 - 7v - 6}{v-2} = 11$$