

8.2.4

Hulk

8-109)

$$a) (3 \times 10^2)(2 \times 10^3)$$

$$6 \times 10^5$$

$$b) (2.75 \times 10^{-2})(2.5 \times 10^8)$$

$$6.875 \times 10^6$$

$$c) \frac{28 \times 10^{12}}{14 \times 10^7} = 2 \times 10^5$$

8-110)

$$a) (x^2)(x^5) = x^7$$

$$b) \frac{y^7}{y^4} = y^3$$

$$c) x^3 \cdot x^4 = x^7$$

8-111)

a) positive

b) none

c) positive

d) negative

8-112)

$$\begin{matrix} 4'' & \times & 6'' \\ \text{tall} & & \text{wide} \\ \downarrow \times 8 & & \downarrow \times 8 \end{matrix}$$

$$a) 32'' \times 48''$$

$$\begin{matrix} 4'' & \times & 6'' \\ \text{tall} & & \text{wide} \\ \downarrow \div 2.6 & & \downarrow \div 2.6 \end{matrix}$$

$$b) 1.5'' \times 2.25$$

8-113)

a) $\approx \$40$ after 2 wks

b) $\approx \$55$, draw a trend line
and read from the y-axis

c) $\approx \$75$, extend the trend line

8-114)

12 doz. cookies

3 lbs. flour

$$a) \frac{12}{3} = \frac{18}{x}$$

$$\frac{12}{12} = \frac{54}{12}$$

$x = 4.5$ pounds of flour

$$b) \frac{12}{3} = \frac{x}{10}$$

$$\frac{3x}{3} = \frac{120}{3}$$

$x = 40$ dozen cookies