

8.4 Extra practice WS.

$$\begin{array}{r} 1c) \quad x^2 = 2x^2 \\ - x^2 \quad - x^2 \end{array}$$

$$0 = 2x^2 - x^2$$

$$\sqrt{0} = \sqrt{|x^2|}$$

$$0 = x$$

$$x = 0$$

1d)

$$\begin{array}{r} x^2 + 16 = 2x^2 \\ -x^2 \qquad \qquad -x^2 \\ \hline 16 = 2x^2 - x^2 \end{array}$$

$$\sqrt{16} = \sqrt{1x^2}$$

$$x = 4$$

$$2c) \quad |w+1| + 2 = 4$$

$$|w+1| = 2$$

$$w+1 = 2$$

$$w = 1$$

$$w+1 = -2$$

$$w = -3$$

3b)

$$\frac{3m^2}{3} = \frac{48}{3}$$

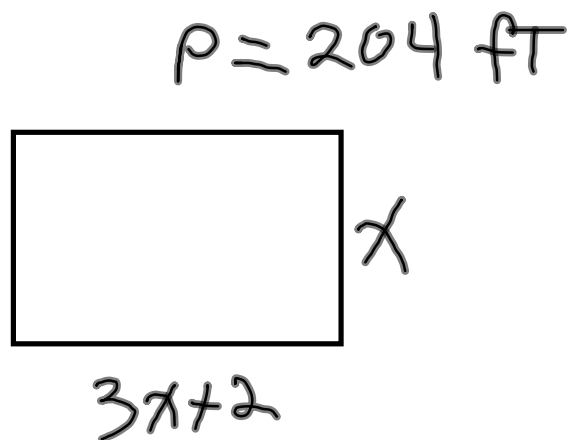
$$\sqrt{m^2} = \pm\sqrt{16} \leftarrow m^2 = 16$$

$$m = \pm 4$$

$$\begin{array}{r} 3c) \quad 5m^2 + (15) = (12m) + 1 \\ \quad \quad -12m \qquad \qquad -12m \\ \hline \quad \quad -7m + 15 = 1 \\ \quad \quad \quad -15 \quad -15 \\ \hline \quad \quad -7m = -14 \\ \quad \quad \quad -7 \quad \quad -7 \end{array}$$

add up all
sides and set
it equal to 204.

DO NOT FORGET
UNITS!!!



8) $area = x^2 \cdot \pi$ $\xrightarrow{\hspace{10em}}$ $area = 49\pi$

$$49 \cdot \pi = x^2 \cdot \pi$$

Solve
for x

