8.4 Extra practice WS.

1c) $x^2 = 2x^2$

$-x^2 \quad -x^2$

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

$\sqrt{0} = \sqrt{1x^2}$

$0 = x$

$x = 0$

1d)

$$x^2 + 16 = 2x^2$$
$$-x^2 \qquad -x^2$$
$$16 = 2x^2 - x^2$$
$$\sqrt{16} = \sqrt{1x^2}$$
$$x = 4$$

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

$-2 \quad -2$

$|w+1|=2$

$w+1=2$

$w=1$

$w+1=-2$

$w=-3$

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

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

$m = \pm 4$

3c) $5m^2 + 15 = 12m + 1$

$-12m \qquad -12m$

$-7m + 15 = 1$

$-15 \qquad -15$

$\frac{-7m}{-7} = \frac{-14}{-7}$

add up all sides and set it equal to 204.

DO NOT FORGET UNITS!!!

$P = 204$ ft

8) $\text{area} = x^2 \cdot \pi$ ⟵ $\text{area} = 49\pi$

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

Solve for x