HW green text p.132 #s 16-35
(2nd col.)

16.) $^{10*}[0.5m - 30 = 1.1m]$

*multiply the equation by 10 to get rid of the decimal

$5m - 300 = 11m$
$-5m \qquad -5m$
$\frac{-300}{6} = \frac{6m}{6}$

$m = -50$

19.) $4y + 20 = 5y + 9$
$-4y \qquad -4y$
$20 = y + 9$
$-9 \qquad -9$
$11 = y$

22.) $9x - 3 = 2x + 46$
$-2x \qquad -2x$
$7x - 3 = 46$
$+3 \qquad +3$
$\frac{7x}{7} = \frac{49}{7}$

$x = 7$

25.) $2d + 36 = -3d - 54$
$+3d \qquad +3d$
$5d + 36 = -54$
$-36 \qquad -36$
$\frac{5d}{5} = \frac{-90}{5}$

$d = -18$

28.) distributive prop.
$x - 3(1 - x) = 47 - x$
$x - 3 + 3x = 47 - x$
$4x - 3 = 47 - x$
$+x \qquad +x$
$5x - 3 = 47$
$+3 \qquad +3$
$\frac{5x}{5} = \frac{50}{5}$

$x = 10$

31.)
$18 - 4n = 8 - 2(1 + 8n)$
$18 - 4n = 8 - 2 - 16n$
$18 - 4n = 6 - 16n$
$+16n \qquad +16n$
$18 + 12n = 6$
$-18 \qquad -18$
$\frac{12n}{12} = \frac{-12}{12}$

$n = -1$

33.)
$8a - 3(5 + 2a) = 85 - 3a$
$8a - 15 - 6a = 85 - 3a$
$2a - 15 = 85 - 3a$
$+3a \qquad +3a$
$5a - 15 = 85$
$+15 \qquad +15$
$\frac{5a}{5} = \frac{100}{5}$

$a = 20$

35.) $3m - 5m - 12 = 7m - 88 - 5$

$$-2m - 12 = 7m - 93$$

$$\underline{+2m \qquad\qquad +2m}$$

$$-12 = 9m - 93$$

$$\underline{+93 \qquad\qquad +93}$$

$$\frac{81}{9} = \frac{9m}{9}$$

$$m = 9$$