W-A1 Algebra 1 11/10

1.) $7(m+4) = 84$

$7m + 28 = 84$

$-28 \quad -28$

$\frac{7m}{7} = \frac{56}{7}$ $\boxed{m = 8}$

2.) $90 = -6(4x - 7)$

$90 = -24x + 42$

$-42 \quad -42$

$\frac{48}{-24} = \frac{-24x}{-24}$ $\boxed{x = -2}$

3.) $18 = -5n - 4n$

$-5n + (-4n)$

$\frac{18}{-9} = \frac{-9n}{-9}$ $\boxed{n = -2}$

4.) $-4(6 + 8x) = 168$

$-24 - 32x = 168$

$+24 \quad +24$

$\frac{-32x}{-32} = \frac{192}{-32}$ $\boxed{x = -6}$

5.) $2(5x+4) + 2(-7x+8) = 44$

$10x + 8 - 14x + 16 = 44$

$10x + (-14x) \quad 8 + 16$

$-4x + 24 = 44$

$-24 \quad -24$

$\frac{-4x}{-4} = \frac{20}{-4}$ $\boxed{x = -5}$

6.) $29 = -7(2n - 5) - 8(-5 + 4n)$

$29 = -14n + 35 + 40 - 32n$

$29 = -46n + 75$

$-75 \quad -75$

$\frac{-46}{-46} = \frac{-46n}{-46}$ $\boxed{n = 1}$

$-5(5n-2)+4=-40-7n$

$-25n+10+4=-40-7n$

$-25n+14=-40-7n$

$+25n \qquad +25n$

$14=-40+18n$

$+40 \qquad +40$

$\frac{54}{18}=\frac{18n}{18}$

$\boxed{n=3}$

$-21-6n=-(6+4n)+n$

$-21-6n=-6-4n+n$

$-21-6n=-6-3n$

$+6 \qquad +6$

$-15-6n=-3n$

$+6n \qquad +6n$

$\boxed{n=-5}$

$-15=3n$

$\frac{-15}{3}=\frac{3n}{3}$

$7-3=$

$\boxed{-(7-3)}$

$-1(7-3)$

$---$

$3x-31=7(1-5x)$

$3x-31=7-35x$

$+31 \qquad +31$

$3x=38-35x$

$+35x \qquad +35x$

$\frac{38x}{38}=\frac{38}{38}$

$\boxed{x=1}$