W-A1 Algebra 1 11/3

1.) $x + 4 = 12$
$-4 \quad -4$
$\boxed{x = 8}$

2.) $x - 9 = 23$
$+9 \quad +9$
$\boxed{x = 32}$

3.) $7\left(\frac{x}{7}\right) = (3)7$
$\boxed{x = 21}$

4.) $\frac{9x}{9} = \frac{45}{9}$
$\boxed{x = 5}$

1.) $3x - 4 = 8$
$+4 \quad +4$
$\frac{3x}{3} = \frac{12}{3}$
$\boxed{x = 4}$

2.) $\frac{x}{4} + 3 = 10$
$-3 \quad -3$
$4\left(\frac{x}{4}\right) = (7)4$
$\boxed{x = 28}$

3.) $4a + 1 = 13$
$-1 \quad -1$
$\frac{4a}{4} = \frac{12}{4}$
$\boxed{a = 3}$

4.) $\frac{x}{2} - 3 = 5$
$+3 \quad +3$
$2\left(\frac{x}{2}\right) = (8)2$
$\boxed{x = 16}$

5.) ★ + ▭● = ◭
$-★ \quad -★$
solve for ●

$\frac{▭●}{▭} = \frac{◭ - ★}{▭}$ $\quad ● = \frac{◭ - ★}{▭}$

"simplify"

$3a + 5 - x + 7x - 2a$

$3a - 2a = a$ $\quad -x + 7x = 6x$

$a + 6x + 5$

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1.) $2x - 5 + 3a - 5x + 10a$

$-3x + 13a - 5$

$2x - 5x = -3x$ $\quad 3a + 10a = 13a$ $\quad -5$

3.) ~~$7b$~~ $- b - x + 5 - 2x$ ~~$- 7b$~~

$-b$

$-b - 3x + 5$

$-x - 2x = -3x$

1.) $-4x + 3(2x - 5) = 31$

$-4x + 6x - 15 = 31$

$x = 23$

$2x - 15 = 31$

$+15 \quad +15$

$\frac{2x}{2} = \frac{46}{2}$

1.) $13 + 2(5c-2) = 29$

$13 + 10c - 4 = 29$

$10c + 9 = 29$

$-9 \quad -9$

$c = 2$

$\frac{10c}{10} = \frac{20}{10}$

2.) $5(t-3) - 2t = -30$

$5t - 15 - 2t = -30$

$+15 \qquad +15$

$5t - 2t = -15$

$\frac{3t}{3} = \frac{-15}{3} \qquad t = -5$

3.) $\frac{2}{5}\left(\frac{5k}{1} + \frac{35}{1}\right) - 8 = 12$

$\frac{10k}{5} + \frac{70}{5}$

$2k + 14 - 8 = 12$

$2k + 6 = 12$

$-6 \quad -6$

$2k = 6$

$\frac{2k}{2} = \frac{6}{2}$

$k = 3$

4.) $5(b+4) - 6b = -24$

$5b + 20 - 6b = -24$

$-b + 20 = -24$

$-20 \quad -20$

$\frac{-b}{-1} = \frac{-44}{-1}$

$b = 44$