Combine $\pm$ terms & $\times \div$ coefficients

$2x + 4 = 10$

$x + x = 6$

$2x + x = 9$

$3x + 7 = 10 - x$

$3x + 10 = 4x - 2$

$2.1x - x = 4$

$3.2x - 6.4 = 1.4x + 2$

$\frac{1}{2}x - x = 2$

$$\frac{3}{2}x - \frac{1}{2}x = \frac{7}{8}$$

$$4.4x - \frac{1}{2}x = x - 2$$

$$4x + \frac{x}{2} = 4 - \frac{x}{3}$$

$$\frac{x-1}{x} = 4$$

$$ax + 2 = 4$$

$$\frac{x - a}{2x} = 5$$

$$\frac{\beta x - 4}{\alpha} = 4$$

$$\frac{\beta - x}{2} = \frac{x}{3}$$

combine ± terms & ×÷ coefficients

$$2x + 4 = 10$$
$$\quad -4 \qquad -4$$
$$\frac{1}{2}(2x) = (6)\frac{1}{2}$$
$$\boxed{x = 3}$$

$$x + x = 6$$
$$\frac{1}{2}(2x) = (6)\frac{1}{2}$$
$$\boxed{x = 3}$$

$$2x + x = 9$$
$$\frac{1}{3}(3x) = (9)\frac{1}{3}$$
$$\boxed{x = 3}$$

$$3x + 7 = 10 - x$$
$$+x \quad -7 \qquad -7 \quad +x$$
$$\frac{1}{4}(4x) = (3)\frac{1}{4}$$
$$\boxed{x = \frac{3}{4}}$$

$$3x + 10 = 4x - 2$$

$-4x \quad -10 \qquad -4x \quad -10$

$$(-1)(-x) = (-12)(-1)$$

$$\boxed{x = 12}$$

$$2.1x - x = 4$$

$$\frac{1}{1.1}(1.1x) = (4)\frac{1}{1.1}$$

$$\boxed{x = \frac{40}{11} \approx 3.64}$$

$$3.2x - 6.4 = 1.4x + 2$$

$-1.4x \quad +6.4 \qquad -1.4x \quad +6.4$

$$\frac{1}{1.8}(1.8x) = (8.4)\frac{1}{1.8}$$

$$\boxed{x = \frac{14}{3} \approx 4.67}$$

$$\frac{1}{2}x - x = 2$$

$$(-2)\left(-\frac{1}{2}x\right) = (2)(-2)$$

$$\boxed{x = -4}$$

$$\frac{3}{2}x - \frac{1}{2}x = \frac{7}{8}$$

$$\frac{2}{2}x = \frac{7}{8}$$

$$\boxed{x = \frac{7}{8}}$$

$$4.4x - \frac{1}{2}x = x - 2 \quad (-x,\ -x)$$

$$\frac{1}{2.9}(2.9x) = (-2)\frac{1}{2.9}$$

$$\boxed{x = -\frac{20}{29} = -0.69}$$

$$4x + \frac{x}{2} = 4 - \frac{x}{3} \quad \left(+\frac{x}{3},\ +\frac{x}{3}\right)$$

$$\frac{6}{25}\left(\frac{29}{6}x\right) = (4)\frac{6}{25}$$

$$\boxed{x = \frac{24}{29} = 0.83}$$

$$\frac{x-1}{x} = 4$$

$$x - 1 = 4x \quad (-4x,\ +1)$$

$$-3x = 1$$

$$\boxed{x = -\frac{1}{3} \simeq -0.33}$$

$$ax + 2 = 4$$ $$-2 \qquad -2$$

$$\frac{1}{a}(ax) = (2)\frac{1}{a}$$

$$\boxed{x = \frac{2}{a}}$$

$$2x\left(\frac{x-a}{2x}\right) = (5)2x$$

$$x - a = 10x$$ $$-10x \quad +a \quad -10x$$

$$-9x = a$$

$$\boxed{x = -\frac{a}{9}}$$

$$\alpha\left(\frac{\beta x - 4}{\alpha}\right) = (4)\alpha$$

$$\beta x - 4 = 4\alpha$$ $$+4 \quad +4$$

$$\frac{1}{\beta}(\beta x) = (4\alpha + 4)\frac{1}{\beta}$$

$$\boxed{x = \frac{1}{\beta}(4\alpha + 4)}$$

$$(2)(3)\left(\frac{\beta - x}{2}\right) = \left(\frac{x}{3}\right)(2)(3)$$

$$3(\beta - x) = 2x$$

$$3\beta - 3x = 2x$$ $$-3\beta \quad -2x \quad -2x \quad -3\beta$$

$$-5x = -3\beta$$

$$\boxed{x = \frac{3}{5}\beta}$$