

Alg I 1.9

$$\begin{array}{r} 1) \quad y - 3x = 13 \\ \quad +3x \quad +3x \\ \hline \quad y = 3x + 13 \end{array}$$

$$11) \quad y = 4x + 8x$$

$$\frac{y}{12} = \frac{12x}{12}$$

$$\frac{1}{12}y = x$$

$$5) \quad \begin{array}{r} 9x - y = 45 \\ -9x \quad -9x \\ \hline \end{array}$$

$$\frac{-y}{-1} = \frac{-9x}{-1} + \frac{45}{-1}$$

$$y = 9x - 45$$

$$13) \quad a = 2x + 6xz$$
$$\frac{a}{2+6z} = \frac{x(2+6z)}{2+6z}$$

$$\frac{a}{2+6z} = x$$

$$\frac{a}{2+6z} = x$$

$$\begin{array}{r}
 20) \quad x - 9 + 2w x = y \\
 \quad \quad \quad + 9 \qquad \qquad \quad + 9 \\
 \hline
 x + 2w x = y + 9 \\
 \hat{x} \quad \quad \quad \hat{x} \\
 x (1 + 2w) = y + 9 \\
 \hline
 \frac{x}{1 + 2w} = \frac{y + 9}{1 + 2w} \\
 x = \frac{y + 9}{1 + 2w}
 \end{array}$$

$$\begin{array}{r}
 17) \quad s x + t x = R \\
 \quad \quad \quad \uparrow \quad \quad \quad \uparrow \\
 \frac{x(s+t)}{s+t} = \frac{R}{s+t} \\
 x = \frac{R}{s+t}
 \end{array}$$

$$28) a = \frac{v_1 - v_0}{t}$$

$$at = v_1 - v_0$$

$$\frac{+v_0 \quad +v_0}{at + v_0 = v_1}$$

$$18) a = bx + cx + d$$

$$\frac{-d \quad -d}{a - d = bx + cx}$$

$$\frac{a - d}{b + c} = \frac{x(b + c)}{b + c}$$

$$\frac{a - d}{b + c} = x$$

$$9) \quad 2 + \frac{1}{6}y = 3x + 4$$

$$\begin{array}{r} -2 \\ \hline \end{array}$$

$$\frac{\frac{1}{6}y}{\frac{1}{6}} = \frac{3x}{\frac{1}{6}} + \frac{2}{\frac{1}{6}}$$

$$y = 18x + 12$$

$$26) \quad S = 2\pi R^2 + 2\pi Rh$$

$$\begin{array}{r} -2\pi R^2 \\ \hline \end{array}$$

$$\frac{S - 2\pi R^2}{2\pi} = \frac{2\pi h}{2\pi}$$

$$\frac{S}{2\pi} - R^2 = h$$