

$$1) \frac{P}{IR} = \frac{IRT}{IR}$$

$$\boxed{T = \frac{P}{IR}}$$

$$2) \begin{array}{r} y = 5x - 6 \\ +6 \quad +6 \\ \hline y + 6 = 5x + 6 \\ \hline \frac{y+6}{5} = \frac{5x+6}{5} \end{array}$$

$$\boxed{x = \frac{y+6}{5}}$$

$$3) \frac{x+y}{3} = 5 \cdot 3$$

$$\begin{array}{r} x+y = 15 \\ \hline x = 15 - y \end{array}$$

$$4) \begin{array}{r} ax + by = c \\ -ax \quad -ax \\ \hline by = c - ax \\ \hline \frac{by}{b} = \frac{c - ax}{b} \end{array}$$

$$\boxed{y = \frac{c - ax}{b}}$$

$$5) \frac{V}{WH} = \frac{LWH}{WH}$$

$$\boxed{L = \frac{V}{WH}}$$

$$6) \frac{V}{\pi r^2} = \frac{\pi r^2 h}{\pi r^2}$$

$$\boxed{h = \frac{V}{\pi r^2}}$$

$$7) \frac{A}{2} = \frac{2(L+W)}{2}$$

$$\frac{A}{2} = L + W$$

$$\begin{array}{r} -L \quad -L \\ \hline W = \frac{A}{2} - L \end{array}$$

$$8) \begin{array}{r} 2x - 3y = 8 \\ -2x \quad -2x \\ \hline -3y = 8 - 2x \\ \hline \frac{-3y}{-3} = \frac{8 - 2x}{-3} \end{array}$$

$$\boxed{y = \frac{8 - 2x}{-3}}$$

$$9) \begin{array}{r} y = mx + b \\ -mx \quad -mx \\ \hline b = y - mx \end{array}$$

$$\boxed{b = y - mx}$$

$$10) \frac{A}{h} = \frac{h(b+c)}{h}$$

$$\frac{A}{h} = b + c$$

$$\begin{array}{r} -c \\ \hline b = \frac{A}{h} - c \end{array}$$

$$11) \frac{A}{4} = \frac{4r^2}{4}$$

$$\boxed{r^2 = \frac{A}{4}}$$

$$12) 7x - y = 14$$

$$\begin{array}{r} 7x = 14 + y \\ \hline \frac{7x}{7} = \frac{14 + y}{7} \end{array}$$

$$\boxed{x = 2 + \frac{y}{7}}$$

Key

$$13) 2 \cdot A = \frac{x+y}{2} \cdot 2$$

$$2A = x+y$$

$$-x \quad -x$$

$$\boxed{y = 2A - x}$$

$$15) 6 \cdot x = \frac{y \cdot z}{6} \cdot 6$$

$$6x = yz$$

$$\frac{6x}{y} \quad \frac{6x}{y}$$

$$\boxed{z = \frac{6x}{y}}$$

$$17) 3 \cdot A = \frac{a+bt+c}{3} \cdot 3$$

$$3A = a+bt+c$$

$$-a \quad -c \quad -a \quad -c$$

$$\boxed{b = 3A - a - c}$$

$$19) 4 \cdot x = \frac{2y-z}{4} \cdot 4$$

$$4x = 2y - z$$

$$-2y \quad -2y$$

$$\frac{4x-2y}{-1} = \frac{-z}{-1}$$

$$\boxed{z = -4x + 2y}$$

$$14) I \cdot R = \frac{E}{I} \cdot I$$

$$\frac{IR}{R} = \frac{E}{R}$$

$$\boxed{I = \frac{E}{R}}$$

$$16) 2L \cdot A = \frac{r}{2L} \cdot 2L$$

$$\frac{2LA}{2A} = \frac{r}{2A}$$

$$\boxed{L = \frac{r}{2A}}$$

$$18) 12x - 4y = 20$$

$$-12x$$

$$-12x$$

$$-4y = -12x + 20$$

$$\frac{-4y}{-4} = \frac{-12x}{-4} + \frac{20}{-4}$$

$$\frac{-4y}{-4}$$

$$\frac{-12x}{-4}$$

$$\frac{20}{-4}$$

$$\frac{20}{-4}$$

$$\boxed{y = 3x - 5}$$

$$20) N \cdot P = \frac{R-C}{N} \cdot N$$

$$NP = R - C$$

$$+C \quad +C$$

$$\boxed{R = NP + C}$$