

# Linear Equations

$$\begin{aligned}\text{Example 1) } x + 2 &= 6 \\ x &= 6 - 2 \\ x &= 4\end{aligned}$$

$$\begin{aligned}2) \quad y - 3 &= 5 \\ y &= 5 + 3 \\ y &= 8\end{aligned}$$

$$\begin{aligned}3) \quad 2x &= 10 \\ x &= \frac{10}{2} \\ x &= 5\end{aligned}$$

$$\begin{aligned}4) \quad \frac{y}{4} &= 8 \\ y &= 8 \times 4 \\ y &= 32\end{aligned}$$

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$$\begin{aligned}5) \quad 2x + 3 &= 11 \\ 2x &= 11 - 3 \\ 2x &= 8 \\ x &= \frac{8}{2} \\ \underline{x &= 4}\end{aligned}$$

$$\begin{aligned}6) \quad 3x + 7 &= 19 - x \\ 3x + x &= 19 - 7 \\ 4x &= 12 \\ x &= \frac{12}{4} \\ \underline{x &= 3}\end{aligned}$$

$$\begin{aligned}7) \quad 2(3x + 1) &= 26 \\ 6x + 2 &= 26 \\ 6x &= 26 - 2 \\ 6x &= 24 \\ x &= \frac{24}{6} \\ \underline{x &= 4}\end{aligned}$$