

The
Real
ACT2nd
Ed1min
EACH

① If $4x + 3 = 9x - 4$, then $x = ?$

② Simplify: $a[b + (c - d)]$

③ If $12x = -8(10 - x)$, then $x = ?$

ANS

①
$$\begin{array}{r} 4x + 3 = 9x - 4 \\ -4x \quad -4x \\ \hline 3 = 5x - 4 \\ +4 \quad +4 \\ \hline 7 = 5x \\ \frac{7}{5} = \frac{5x}{5} \end{array}$$

$$\frac{7}{5} = x$$

$$\boxed{x = \frac{7}{5}}$$

② $a[b + (c - d)]$

$$a[b + c - d]$$

$$\boxed{ab + ac - ad}$$

③ $12x = -8(10 - x)$

$$\begin{array}{r} 12x = -80 + 8x \\ -8x \quad -8x \\ \hline 4x = -80 \end{array}$$

$$\frac{4x}{4} = \frac{-80}{4}$$

$$\boxed{x = -20}$$