

Solving Equations Using the Distributive Property

Find the value of x for each of the given equations.

① $5(4x + 8) = 80$

② $-4x = 3(x + 7)$

③ $2(x - 1) + 3x = 3$

④ $\frac{3}{2}(3x + 5) = -24$

⑤ $3(x - 2) = 18$

⑥ $0.25(3 + x) = 0.5$

⑦ $2(3x - 1) + 2(4x + 5) = 16$

⑧ $-2 - 3(1 - 4x) = -53$

⑨ $-111 = 3(7x - 2)$

⑩ $-86 = 4 + 5(3x - 3)$

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Answers

$$\textcircled{1} \quad 5(4x + 8) = 80$$

$$x = 2$$

$$\textcircled{2} \quad -4x = 3(x + 7)$$

$$x = -3$$

$$\textcircled{3} \quad 2(x - 1) + 3x = 3$$

$$x = 1$$

$$\textcircled{4} \quad \frac{3}{2}(3x + 5) = -24$$

$$x = -7$$

$$\textcircled{5} \quad 3(x - 2) = 18$$

$$x = 8$$

$$\textcircled{6} \quad 0.25(3 + x) = 0.5$$

$$x = -3$$

$$\textcircled{7} \quad 2(3x - 1) + 2(4x + 5) = 16$$

$$x = \frac{4}{7}$$

$$\textcircled{8} \quad -2 - 3(1 - 4x) = -53$$

$$x = -4$$

$$\textcircled{9} \quad -111 = 3(7x - 2)$$

$$x = -5$$

$$\textcircled{10} \quad -86 = 4 + 5(3x - 3)$$

$$x = -5$$