

4

(A)

$$4x - 12 = -2x \quad | +2x$$

$$6x - 12 = 0 \quad | +12$$

$$6x = 12 \quad | :6$$

$$\underline{\underline{x = 2}}$$

$$12 - 4x = -2x \quad | +4x$$

$$12 = 2x \quad | :2$$

$$\underline{\underline{6 = x}}$$

$$-4x - 12 = 2x \quad | +4x$$

$$-12 = 6x \quad | :6$$

$$\underline{\underline{-2 = x}}$$

$$-12 - 4x = 2x \quad | +4x$$

$$-12 = 6x \quad | :6$$

$$\underline{\underline{-2 = x}}$$

4

Ⓟ

$$x + 1 = 2(x + 8)$$

$$x + 1 = 2x + 16 \quad | -x$$

$$1 = x + 16 \quad | -16$$

$$\underline{\underline{-15 = x}}$$

$$x + 2 = 2(x + 10)$$

$$x + 2 = 2x + 20 \quad | -x$$

$$2 = x + 20 \quad | -20$$

$$\underline{\underline{-18 = x}}$$

$$x + 3 = 2(x + 12)$$

$$x + 3 = 2x + 24 \quad | -x$$

$$3 = x + 24 \quad | -24$$

$$\underline{\underline{-21 = x}}$$

$$x + 4 = 2(x + 14)$$

$$x + 4 = 2x + 28 \quad | -x$$

$$4 = x + 28 \quad | -28$$

$$\underline{\underline{-24 = x}}$$

5

(A)

$$\frac{x}{2} + 1 = 4 \quad | \cdot 2$$

$$x + 2 = 8 \quad | -2$$

$$\underline{\underline{x = 6}}$$

$$3 - \frac{2x}{3} = 1 \quad | \cdot 3$$

$$9 - 2x = 3 \quad | + 2x$$

$$9 = 2x + 3 \quad | - 3$$

$$6 = 2x \quad | : 2$$

$$\underline{\underline{3 = x}}$$

$$2x - \frac{3}{4} = \frac{1}{2} \quad | \cdot 4$$

$$8x - 3 = 2 \quad | + 3$$

$$8x = 5 \quad | : 8$$

$$\underline{\underline{x = \frac{5}{8}}}$$

$$4 - \frac{3x}{5} = \frac{7}{10} \quad | \cdot 10$$

$$40 - 6x = 7 \quad | + 6x$$

$$40 = 6x + 7 \quad | - 7$$

$$33 = 6x \quad | : 6$$

$$\frac{33}{6} = x$$

$$\underline{\underline{x = \frac{11}{2}}}$$

5

(B)

$$2,3x - 4 = -1,7 \quad | + 4$$

$$2,3x = 2,3 \quad | : 2,3$$

$$\underline{\underline{x = 1}}$$

$$8 - 0,4 \cdot x = -12 \quad | + 0,4x$$

$$8 = 0,4x - 12 \quad | + 12$$

$$20 = 0,4x \quad | : 0,4$$

$$\underline{\underline{50 = x}}$$

$$3,5 + 0,3x = 1,1x - 0,5 \quad | - 0,3x$$

$$3,5 = 0,8x - 0,5 \quad | + 0,5$$

$$4 = 0,8x \quad | : 0,8$$

$$\underline{\underline{5 = x}}$$

$$0,6(x-3) = 0,5(0,4 + 2x)$$

$$0,6x - 1,8 = 0,2 + x \quad | - 0,6x$$

$$-1,8 = 0,2 + 0,4x \quad | - 0,2$$

$$-2 = 0,4x \quad | : 0,4$$

$$-\frac{2}{0,4} = x$$

$$x = -\frac{20}{4} = -5$$