

1 Solve the equation.

$$6x + 4 - 3x + 8 = 6x - 3x + 9$$

- A -96
- B 96
- C 28
- D -28
- E All numbers are solutions
- F No solution

$$12 = 9$$

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2 Solve the equation.

$$4(x + 3) + 57 = 7x - 3(x - 9)$$

- A 84
- B 30
- C -84
- D -30
- E All numbers are solutions
- F No solution

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3 Solve the equation.

$$\frac{x}{6} - 10 = -5$$

- A 30
- B 32
- C -30
- D -32
- E All numbers are solutions
- F No solution

$$\frac{6}{1} \left(\frac{x}{6} - 10 \right) = 6(-5)$$

$$x - 60 = -30$$

$$x - 60 + 60 = -30 + 60$$

$$x = 30$$

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4 Solve the equation.

$$0.80x - 0.30(20 + x) = 0.95(20)$$

- A 50
- B 40
- C 25
- D 60
- E All numbers are solutions
- F No solution

$$0.80x + -0.30(20 + x) = 19$$

$$0.80x + -6 + -0.3x = 19$$

$$0.5x - 6 = 19$$

$$0.5x - 6 + 6 = 19 + 6$$

$$\frac{0.5x}{0.5} = \frac{25}{0.5}$$

$$x = 50$$

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5 Solve the equation.

$$\frac{1}{3}x - 3 = 1$$

- A 6
- B -6
- C 12
- D -12
- E All numbers are solutions
- F No solution

$$\begin{aligned} 3 \left(\frac{1}{3}x - 3 \right) &= 3(1) \\ x - 9 &= 3 \\ x - 9 + 9 &= 3 + 9 \\ x &= 12 \end{aligned}$$

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6 Solve the equation.

$$\frac{2(7-x)}{5} = x$$

- A 2
- B 14
- C -2
- D -14
- E All numbers are solutions
- F No solution

$$\begin{aligned} \cancel{2} \left(\frac{14 - \cancel{2}x}{\cancel{5}} \right) &= 5(x) \\ 14 - 2x &= 5x \\ 14 - 2x + 2x &= 5x + 2x \\ 14 &= 7x \end{aligned}$$

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7 Solve the equation.

$$1.2x + 4.4 = 0.6x + 2.36$$

- A 0.294
- B -3.41
- C -3.4
- D -3.434
- E All numbers are solutions
- F No solution

$$1.2x + 4.4 - 0.6x = 0.6x + 2.36 - 0.6x$$

$$0.6x + 4.4 = 2.36$$

$$0.6x + 4.4 - 4.4 = 2.36 - 4.4$$

$$\frac{0.6x}{0.6} = \frac{-2.04}{0.6}$$

$$x = -3.4$$

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8 Solve the equation.

$$\frac{x}{9} - 6 = \frac{x}{9}$$

- A 27
- B 5
- C -27
- D -5
- E All numbers are solutions
- F No solution

$$9 \left(\frac{x}{9} - 6 \right) = 9 \left(\frac{x}{9} \right)$$

$$x - 54 = x$$

$$x - 54 - x = x - x$$

$$-54 = 0$$

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9 Solve the equation.

$$\frac{2(9-x)}{3} = -x$$

- A -2
- B 2
- C -18
- D 18
- E All numbers are solutions
- F No solution

$$\frac{2(9-x)}{3} = 3(-x)$$

$$18 - 2x = -3x$$

$$18 - 2x + 2x = -3x + 2x$$

$$18 = -x$$

$$-1(18) = -1(-x)$$

$$-18 = x$$

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