

Quiz 2.3

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Solve each equation.

1) $-3v + 2(1 - v) = 3v + 10$

- A) {6} B) {5}
C) {-1} D) {9}

2) $-26 + 4a = 6(-1 - a)$

- A) {-11}
B) { All real numbers. }
C) {-13}
D) {2}

3) $2(2 - x) = 2(-8 + 5x) - 4$

- A) {11} B) {2}
C) {9} D) No solution.

4) $1 - 4(x + 2) = 3(x + 7)$

- A) {-4} B) {5}
C) No solution. D) {14}

Solve each proportion.

5) $n - 4 = \frac{5n + 7}{2}$

- A) {-5} B) {9}
C) {-2.8} D) {6.5}

Solve each equation.

6) $2.2(-2.4k + 2.3) = 29.036 + 4.71k$

- A) {6.8} B) {-9.9}
C) {9.6} D) {-2.4}

Find the mistake that was made when solving each equation. Explain why the work shown is incorrect. Solve each equation correctly.

7) $-141 = -1 + 4(6x - 5)$

$$-141 = -1 + 24x - 20$$

$$-141 = 24x + 19$$

$$-160 = 24x$$

$$\frac{20}{3} = x$$

A) {Distributed incorrectly, -11 }

B) {Subtracted incorrectly, 5 }

C) {Divided incorrectly, 1 }

D) {Combined like terms incorrectly, -5 }

8) $78 = -3(-6 - 4p)$

$$78 = 18 - 12p$$

$$60 = -12p$$

$$-5 = p$$

A) {Subtracted incorrectly, -9 }

B) {Distributed incorrectly, 5 }

C) {Divided incorrectly, -2 }

D) {Subtracted incorrectly, -6 }