

Assignment: Linear equation in one variable

Date _____

Solve each equation.

1) $-7(1 - n) = -2(n - 9) - 7$

- A) $\{2\}$
B) $\{\text{All real numbers.}\}$
C) No solution.
D) $\{-3\}$

2) $7(x - 5) = -7 + 4(x + 8)$

- A) No solution. B) $\{11\}$
C) $\{20\}$ D) $\{-20\}$

3) $-6n - 7n = 6(10n + 4) - 7(-9 - 2n)$

- A) $\{-2\}$ B) $\{-20\}$
C) $\{-10\}$ D) $\{-1\}$

4) $6(-r + 6) = -5(5r + 1) + 3$

- A) No solution. B) $\{-2\}$
C) $\{-14\}$ D) $\{-18\}$

5) $-4a + 5(1 - 2a) = 33 - 7a$

- A) $\{5\}$ B) $\{-4\}$
C) $\{15\}$ D) $\{8\}$

6) $-6(-5 - 7x) + 2 = 32 + 7x$

- A) $\{0\}$ B) $\{\text{All real numbers.}\}$
C) $\{7\}$ D) $\{-7\}$

7) $-2(n - 8) = -5n + 31$

- A) $\{5\}$ B) No solution.
C) $\{-6\}$ D) $\{2\}$

8) $4x + 4 = 4(4x + 4)$

- A) $\{14\}$ B) $\{-14\}$
C) $\{-1\}$ D) $\{6\}$

9) $-r + 2r = 0$

- A) $\{3\}$ B) $\{-10\}$
C) $\{-8\}$ D) $\{0\}$

10) $1 = 5v - 5 + 6$

- A) $\{12\}$ B) $\{0\}$
C) $\{-5\}$ D) $\{10\}$

Solve each inequality and graph its solution.

11) $x - 12 > 7$

12) $-21 > n - 11$



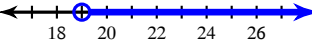
Answers to Assignment: Linear equation in one variable

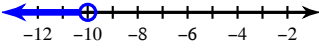
1) A
5) B
9) D

2) C
6) A
10) B

3) D
7) A

4) B
8) C

11) $x > 19$:  A number line with arrows at both ends. It has tick marks and labels for 18, 20, 22, 24, and 26. An open circle is drawn at the number 19, and a blue arrow points to the right from this circle, indicating the solution set $x > 19$.

12) $n < -10$:  A number line with arrows at both ends. It has tick marks and labels for -12, -10, -8, -6, -4, and -2. An open circle is drawn at the number -10, and a blue arrow points to the left from this circle, indicating the solution set $n < -10$.

