

Level: 2

Practice 9
Solving Equations and Inequalities

1. Solve $x + 4 = 7$

A $x = -3$ or $x = -12$

C $x = 8$ or $x = 11$

B $x = -7$ or $x = 2$

D $x = 3$ or $x = -11$

2. Solve $9 + 3x + 5 = 4$.

A $x = 3$ or $x = -2$

C $x = 9$ or $x = -2$

B $x = 3$ or $x = -4$

D no solution

3. Solve $-4 + 3x - 5 = -2$

A $x = 3/7$ or $x = 1/7$

C $x = 7/3$ or $x = 1$

B $x = 3$ or $x = 1/7$

D $x = 3$ or $x = 1$

4. Solve $4x - 2 \leq 10$

A $(-2, -3]$

C $[-2, 3]$

B $[-2, 3)$

D $[2, -3)$

5. Solve $2x - 4 > 6$

A $(-\infty, -2)$ $(5, \infty)$

C $(-\infty, -2)$ $(3, \infty)$

B $(-\infty, -1)$ $(5, \infty)$

D $(-\infty, -4)$ $(7, \infty)$

6. Solve $x^2 - 5x + 6 < 0$

A $(5, 6)$

C $(0, 6)$

B $(2, 3)$

D $(-\infty, 2)$ $(3, \infty)$

7. Solve $x^2 + 4x - 5 \leq 0$

A $(-5, 1)$

C $(-4, 5)$

B $(-5, 4)$

D $(-4, 0)$

8. Solve $x^2 - 3x \geq 0$

A $(-\infty, 0]$ $[3, \infty)$

C $(-\infty, -3]$ $[0, \infty)$

B $(-\infty, 0]$ $[2, \infty)$

D no solution