

Identifying Solutions

MS5

Choose the correct solution that best describes each inequality.

1) $8 > \frac{x+3}{6}$

- a) $[45, \infty)$ b) $(-\infty, 45)$
 c) $(-45, \infty)$ d) $(-\infty, -45)$

2) $9x + 18 \geq -27$

- a) $(-\infty, 5)$ b) $(-5, \infty)$
 c) $[-5, \infty)$ d) $[5, \infty)$

3) $-13 + 21x < 29$

- a) $(-\infty, 2)$
 c) $(-\infty, 2]$

- b) $(-\infty, 58]$
 d) $[58, \infty)$

5) $-6 < 12 + \frac{x}{2}$

- a) $(-\infty, -36)$
 c) $(-\infty, 36)$

- b) $(-\infty, 8)$
 d) $[-8, \infty)$

7) $5x + 19 \geq 24x$

- a) $(-\infty, 1]$
 c) $(-\infty, -1)$

- d) $[1, \infty)$

- c) $(-24, \infty)$

- b) $(24, \infty)$
 d) $(-\infty, -24]$

9) $-30 < -10 + 4x$

- a) $[5, \infty)$ b) $(-\infty, 5)$
 c) $(-\infty, -5]$ d) $(-5, \infty)$

10) $15 > \frac{x}{6} + 1$

- a) $(-\infty, -84)$ b) $(-84, \infty)$
 c) $(-\infty, 84)$ d) $[84, \infty)$

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