

Identifying Solutions

MS3

Choose the correct solution that best describes each inequality.

1) $\frac{9}{x+2} + 6 > 3$

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

2) $4x + \frac{x}{2} \leq -63$

- a) $(-14, \infty)$ b) $(-\infty, -14]$
 c) $[-14, \infty)$ d) $(-\infty, -14]$

3) $\frac{72 - 4x}{5} \geq x$

- a) $(-\infty, 8]$
 c) $(-\infty, -8]$

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5

- b) $[-11, \infty)$
 d) $(-11, \infty)$

5) $x - 6 > \frac{5x}{3}$

- a) $(-\infty, 9)$
 c) $(-\infty, -9]$

- b) $(-4, \infty)$
 d) $[4, \infty)$

7) $-57 < 3(3x + 2)$

- a) $(-7, \infty)$ b) $[7, \infty)$
 c) $(-\infty, 7]$ d) $(7, \infty)$

8) $\frac{-5x + 7}{8} \geq 4$

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