

Identifying Solutions - MCQ

Two-step: S1

Choose the correct solution that best describes each inequality.

1) $|5x + 10| > 20$

- a) $(-\infty, -2) \cup (6, \infty)$ b) $(-\infty, -6) \cup (2, \infty)$
 c) $(-\infty, -2) \cup (-6, \infty)$ d) $(-\infty, 2) \cup (-6, \infty)$

2) $|8x| - 5 \geq 3$

- a) $(-\infty, -1]$ b) $(-\infty, 1]$
 c) $(-\infty, -1] \cup [1, \infty)$ d) No solution

3) $\frac{|x - 10|}{9} < 5$

- a) $(-\infty, 55) \cap (-35, \infty)$ b) $(-\infty, 55) \cap (-35, \infty)$
 c) $(-\infty, 55)$ d) $(-\infty, 55) \cap (-35, \infty)$

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- b) $(-\infty, -3] \cap [3, \infty)$
 d) No solution

5) $|7x - 14| \geq 56$

- a) $(-\infty, 6] \cup [10, \infty)$ b) $(-\infty, 6] \cup [10, \infty)$
 c) $(-\infty, -10] \cup [-6, \infty)$ d) $(-\infty, 6] \cup [10, \infty)$

- b) $(-\infty, 26)$
 d) $(-\infty, 26) \cap (-26, \infty)$

7) $|-11x| + 13 \leq 35$

- a) $(-\infty, 2] \cap [-2, \infty)$ b) $(-\infty, -2] \cup [2, \infty)$
 c) $(-\infty, 2) \cap (-2, \infty)$ d) No solution

8) $|x + 16| - 15 < 17$

- a) $(-\infty, -16) \cap (-48, \infty)$ b) $(-\infty, 48) \cap (16, \infty)$
 c) $(-\infty, 16) \cap (-48, \infty)$ d) $(-\infty, 48) \cap (-16, \infty)$

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