

Identifying Solutions - MCQ

One-step: S2

Choose the correct solution that best describes each inequality.

1) $|x - 11| < 18$

- a) $(-\infty, 29) \cap (-7, \infty)$ b) $(-\infty, -29) \cup (-7, \infty)$
 c) $(-\infty, 7) \cap (-29, \infty)$ d) $(-\infty, -7) \cap (-29, \infty)$

2) $|x + 12| > 5$

- a) $(-\infty, -17) \cup (7, \infty)$ b) $(-\infty, -7) \cup (17, \infty)$
 c) $(-\infty, -17) \cup (-7, \infty)$ d) No solution

3) $\frac{|x|}{4} \leq -6$

- a) $(-\infty, 24] \cap [-24, \infty)$ b) $(-\infty, 24] \cup [-24, \infty)$
 c) $(-\infty, -24]$ d) $(-\infty, 24] \cup [-24, \infty)$

4) $|20x| > 40$

- a) $(-\infty, 2] \cap [-2, \infty)$
 b) $(-\infty, 2] \cup [-2, \infty)$
 c) $(-\infty, -2] \cap [2, \infty)$
 d) $(-\infty, -2] \cup [2, \infty)$

5) $|x - 13| \geq 7$

- a) $(-\infty, -20] \cup [-6, \infty)$ b) $(-\infty, -20] \cup [20, \infty)$
 c) $(-\infty, -6] \cup [20, \infty)$ d) $(-\infty, -20] \cup [20, \infty)$

7) $|x + 17| \leq 20$

- a) $(-\infty, -3]$ b) $(-\infty, -10] \cup [10, \infty)$
 c) $(-\infty, -37] \cup [3, \infty)$ d) $(-\infty, 3] \cap [-37, \infty)$

9) $|24x| > 24$

- a) $(-\infty, -1)$ b) $(1, \infty)$
 c) $(-\infty, -1) \cup (1, \infty)$ d) $(-\infty, 1) \cup (-1, \infty)$

10) $|x - 8| < 9$

- a) $(-\infty, 17) \cap (-1, \infty)$ b) $(-\infty, 1) \cap (-17, \infty)$
 c) $(-\infty, -1) \cap (-17, \infty)$ d) No solution

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