

## Identifying Solutions - MCQ

Basic: S1

Choose the correct solution that best describes each inequality.

1)  $|x| \geq 12$

- a)  $(-\infty, -12] \cup [12, \infty)$       b)  $(-\infty, -12]$   
 c)  $[-12, \infty)$                               d)  $(-\infty, 12] \cup [-12, \infty)$

2)  $|-x| \leq 23$

- a)  $(-\infty, -23] \cup (23, \infty)$       b)  $(-\infty, -23] \cap [23, \infty)$   
 c)  $(-\infty, 23] \cap [-23, \infty)$       d) No solution

3)  $|x| > 5$

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

4)  $|x| < 30$

- b)  $(-\infty, 30) \cap (-30, \infty)$   
 d)  $(-\infty, -30) \cup (30, \infty)$

5)  $|x| < -26$

- a)  $(26, \infty)$                               b)  $(-\infty, 9) \cup (-9, \infty)$   
 c)  $(-\infty, -26)$                               d)  $(-\infty, 9) \cap (-9, \infty)$

7)  $|-x| \leq 35$

- a)  $(-\infty, 35] \cup [-35, \infty)$       b)  $[4, \infty)$   
 c)  $(-\infty, -35] \cap [35, \infty)$       d) No solution

9)  $|x| > 27$

- a)  $(27, \infty)$                               b)  $(-\infty, 27) \cup (-27, \infty)$   
 c)  $(-\infty, -27) \cup (27, \infty)$       d)  $(-\infty, 27) \cap (-27, \infty)$

10)  $-|x| < 16$

- a)  $(-\infty, -16) \cap (16, \infty)$       b)  $(-\infty, 16) \cup (-16, \infty)$   
 c)  $(-\infty, 16) \cap (-16, \infty)$       d) No solution

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