

## Identifying Solutions - MCQ

One-step: S1

Choose the correct solution that best describes each inequality.

1)  $|6x| > 24$

- a)  $(-\infty, 4) \cup (-4, \infty)$       b)  $(4, \infty)$   
 c)  $(-\infty, -4) \cup (4, \infty)$       d)  $(-\infty, -4)$

2)  $13 - |x| < 19$

- a)  $(-\infty, 6) \cap (-6, \infty)$       b)  $(-\infty, -6) \cup (6, \infty)$   
 c)  $(-\infty, -6)$       d) No solution

3)  $|x + 7| \geq 4$

- a)  $(-\infty, 3] \cup [11, \infty)$       b)  $(-\infty, 3] \cup [11, \infty)$   
 c)  $(-\infty, 11] \cup [3, \infty)$       d)  $(-\infty, 11] \cup [3, \infty)$

4)  $\frac{|x|}{3} < 8$

- b)  $(-\infty, -16] \cup [16, \infty)$   
 d)  $[-16, \infty)$

5)  $|x| + 9 \leq 10$

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

- b)  $(-\infty, 7] \cup [17, \infty)$   
 d)  $(-\infty, 7] \cup [-17, \infty)$

7)  $|18x| < -36$

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

- b)  $(-5, \infty)$   
 d)  $(-\infty, -27) \cup (-5, \infty)$

9)  $|x| - 20 \geq 5$

- a)  $(-\infty, -25] \cup [25, \infty)$       b)  $(-\infty, -25]$   
 c)  $[25, \infty)$       d) No solution

10)  $\frac{|x|}{3} \leq 4$

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

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