

## Identifying Solutions

MS3

Choose the correct solution that best describes each inequality.

1)  $14 > \frac{x}{2} + 29$

- a)  $(-\infty, 30)$                       b)  $(-30, \infty)$   
 c)  $(-\infty, -30)$                       d)  $[30, \infty)$

2)  $-34 \leq -7 + 3x$

- a)  $(9, \infty)$                               b)  $(-\infty, 9]$   
 c)  $(-\infty, 9)$                               d)  $[-9, \infty)$

3)  $5x + 41 < -4$

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

- b)  $(-\infty, 6]$   
 d)  $[6, \infty)$

5)  $31 \geq 2x + 5$

- a)  $(-\infty, -13]$   
 c)  $(-\infty, 13]$

- b)  $(60, \infty)$   
 d)  $(-\infty, 60)$

7)  $16 \leq \frac{x+6}{2}$

- a)  $(-\infty, -26]$   
 c)  $(-\infty, 26)$

- b)  $(-\infty, 43]$   
 d)  $(-43, \infty)$

9)  $8x - 49 > -9$

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

10)  $7 \geq \frac{x-2}{3}$

- a)  $(-\infty, -23]$                               b)  $(23, \infty)$   
 c)  $(-\infty, 23)$                               d)  $(-\infty, 23]$

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