

## Identifying Solutions

MS3

Choose the correct solution that best describes each inequality.

1)  $\frac{x+2}{9} + 6 > 3$

- a)  $(-\infty, 29]$                       b)  $[29, \infty)$   
 c)  $(-\infty, -29)$                       d)  $(-29, \infty)$

2)  $4x + \frac{x}{2} \leq -63$

- a)  $(-14, \infty)$                       b)  $(-\infty, -14]$   
 c)  $[-14, \infty)$                       d)  $(-\infty, -14)$

3)  $\frac{72-4x}{5} \geq x$

- a)  $(-\infty, 8]$   
 c)  $(-\infty, -8]$

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- b)  $[-11, \infty)$   
 d)  $(-11, \infty)$

5)  $x - 6 > \frac{5x}{3}$

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

- b)  $(-4, \infty)$   
 d)  $[4, \infty)$

7)  $-57 < 3(3x + 2)$

- a)  $(-7, \infty)$                       b)  $[7, \infty)$   
 c)  $(-\infty, 7]$                       d)  $(7, \infty)$

8)  $\frac{-5x+7}{8} \geq 4$

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