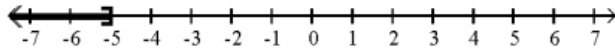


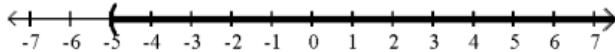
1 Which of these is the correct graph and interval notation for the inequality?

$$x < -5$$

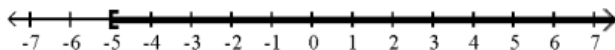
A)  $(-\infty, -5]$



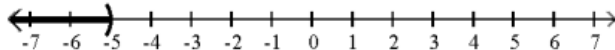
B)  $(-5, \infty)$



C)  $[-5, \infty)$



D)  $(-\infty, -5)$

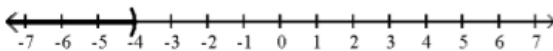


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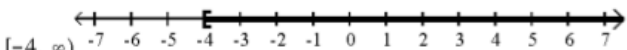
2 Which of these is the correct graph and interval notation for the inequality?

$$x \leq -4$$

A)  $(-\infty, -4)$

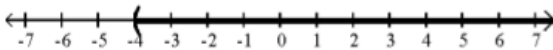


B)

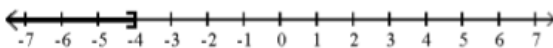


$[-4, \infty)$

C)  $(-4, \infty)$



D)  $(-\infty, -4]$

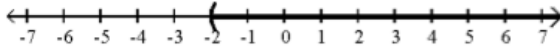


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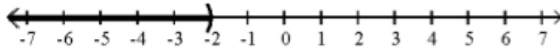
3 Which of these is the correct graph and interval notation for the inequality?

$$x \geq -2$$

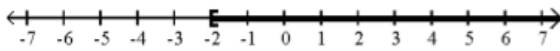
A)  $(-2, \infty)$



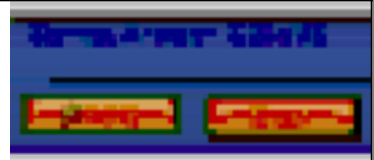
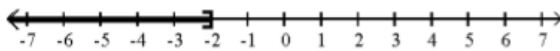
B)  $(-\infty, -2)$



C)  $[-2, \infty)$



D)  $(-\infty, -2]$

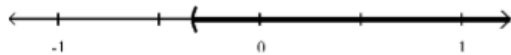


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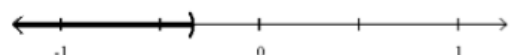
4 Which of these is the correct graph and interval notation for the inequality?

$$x > -\frac{1}{3}$$

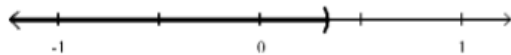
A)  $(-\frac{1}{3}, \infty)$



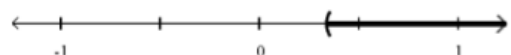
C)  $(-\infty, -\frac{1}{3})$



B)  $(-\infty, -\frac{1}{3}]$



D)  $(-\frac{1}{3}, \infty)$

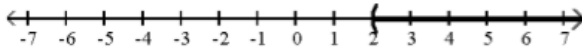


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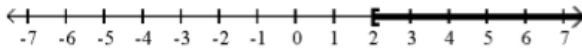
**5** Translate the interval notation to a graph and an inequality.

$$(2, \infty)$$

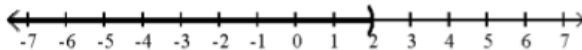
A)  $x > 2$



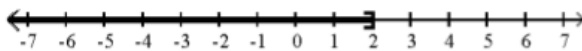
B)  $x \geq 2$



C)  $x < 2$



D)  $x \leq 2$

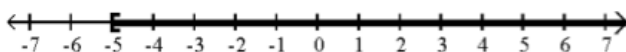


Sep 27-10:20 AM

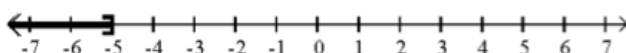
**6** Translate the interval notation to a graph and an inequality.

$$[-5, \infty)$$

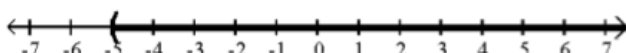
A)  $x \geq -5$



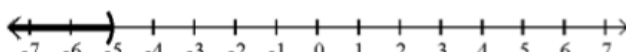
B)  $x \leq -5$



C)  $x > -5$



D)  $x < -5$

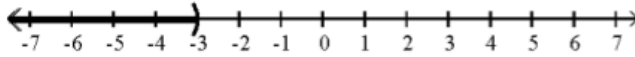


Sep 27-10:20 AM

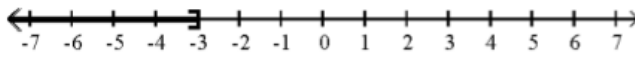
7 Translate the interval notation to a graph and an inequality.

$$(-\infty, -3)$$

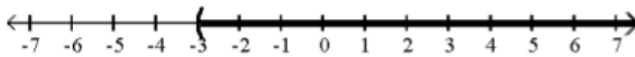
A)  $x < -3$



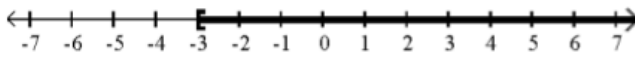
B)  $x \leq -3$



C)  $x > -3$



D)  $x \geq -3$

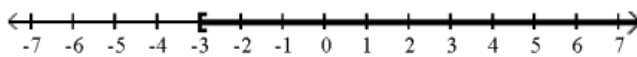


Sep 27-10:20 AM

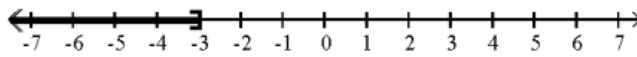
8 Translate the interval notation to a graph and an inequality.

$$(-\infty, -3]$$

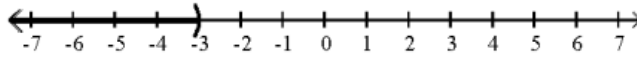
A)  $x \geq -3$



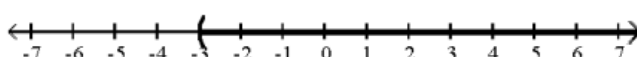
B)  $x \leq -3$



C)  $x < -3$



D)  $x > -3$

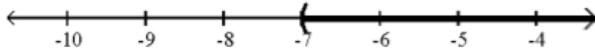


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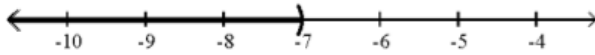
9 Solve the inequality. Graph the solution set and write it as an interval.

$$x + 3 < -4$$

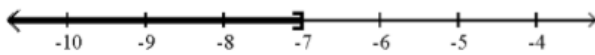
A)  $(-7, \infty)$



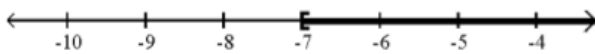
B)  $(-\infty, -7)$



C)  $(-\infty, -7]$



D)  $[-7, \infty)$



$$x + 3 < -4$$

$$x + 3 - 3 < -4 - 3$$

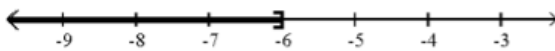
$$x < -7$$

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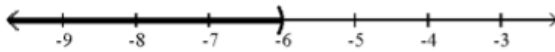
10 Solve the inequality. Graph the solution set and write it as an interval.

$$-\frac{1}{2}x < 3$$

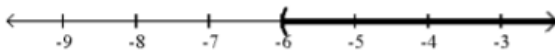
A)  $(-\infty, -6]$



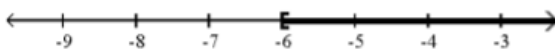
B)  $(-\infty, -6)$



C)  $(-6, \infty)$



D)  $[-6, \infty)$

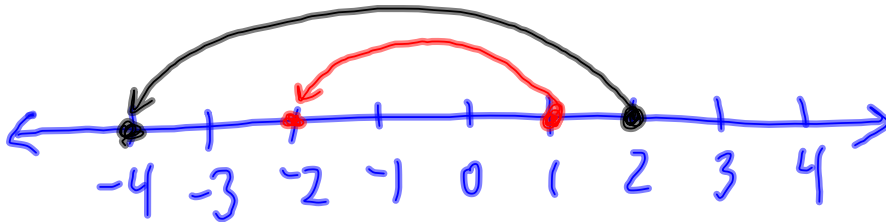


$$-2\left(-\frac{1}{2}x\right) > (3)(-2)$$

$$x > -6$$

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### When do you reverse an inequality?



*Reversal!*

$$1 < 2$$

$$(-2) 1 > (-2) 2$$

Sep 27-1:17 PM

**11** Solve the inequality. Graph the solution set and write it as an interval.

$$-3(5x - 3) < -18x - 15$$

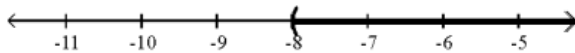
$$-15x + 9 < -18x - 15$$

$$3x + 9 < -15$$

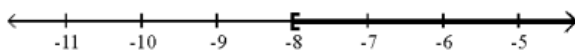
$$3x < -24$$

$$x < -8$$

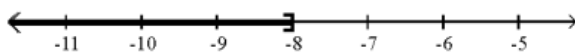
A)  $(-8, \infty)$



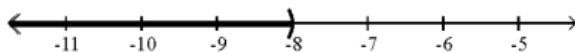
B)  $[-8, \infty)$



C)  $(-\infty, -8]$



D)  $(-\infty, -8)$



Control Panel: 2009/09/28

More Clear

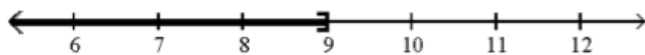
Sep 27-10:20 AM

**12** Solve the inequality. Graph the solution set and write it as an interval.

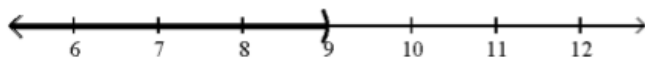
$$-18x + 15 \leq -3(5x + 4)$$

**A**

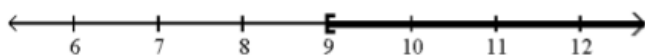
A)  $(-\infty, 9]$



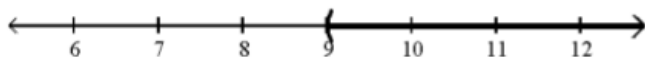
B)  $(-\infty, 9)$



C)  $[9, \infty)$



D)  $(9, \infty)$



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