

SOL Warm-Up Graphing Calculator Active

A.5a (a) Solving multistep linear noncompound inequalities

1. What are the values of x if $7x - 6 \leq 13 + 9x$?

A $x \geq -\frac{19}{2}$

B $x \leq -\frac{19}{2}$

C $x \leq \frac{19}{2}$

D $x \geq \frac{19}{2}$

2. What are the values of x if $9 - 4x > 3x - 16$?

A $x < -\frac{25}{7}$

B $x > -\frac{25}{7}$

C $x < \frac{25}{7}$

D $x > \frac{25}{7}$

3. What are the values of x if $2x + 4 < 10 - 8x$?

A $x < -\frac{3}{5}$

B $x > -\frac{3}{5}$

C $x < \frac{3}{5}$

D $x > \frac{3}{5}$

4. What are the values of x if $-2x + 6 \geq 3x - 4$?

A $x \geq -2$

B $x \leq -2$

C $x \geq 2$

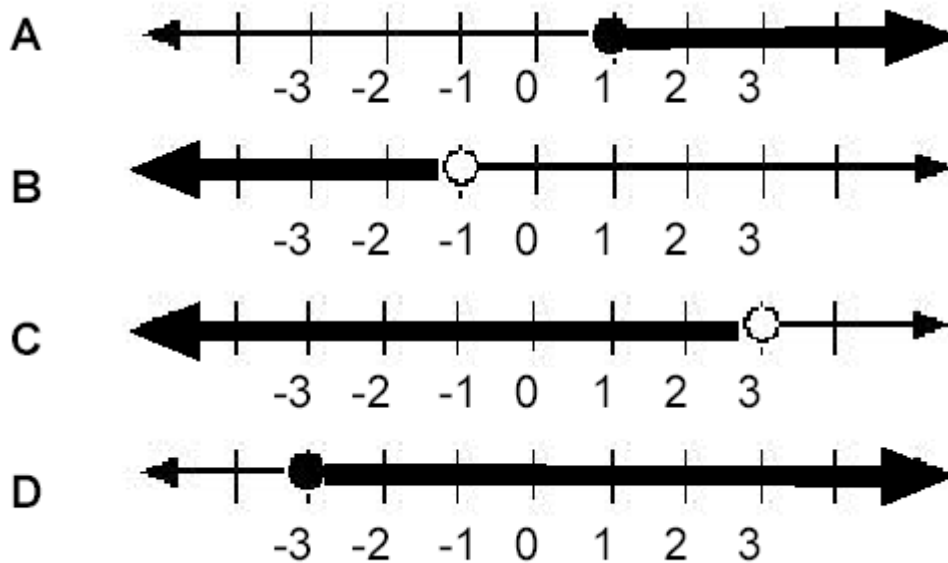
D $x \leq 2$

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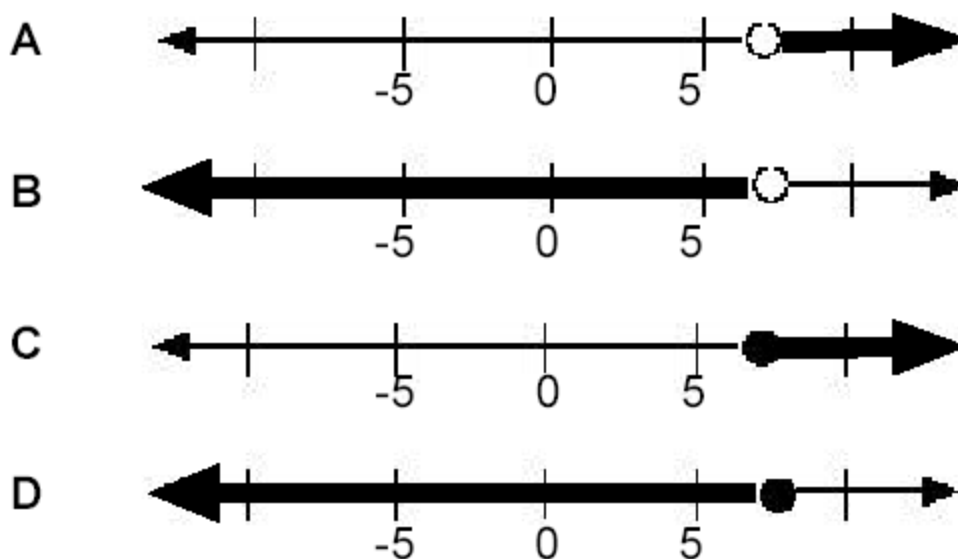
Graphing Calculator Active

A.5a (b) Solving multistep linear noncompound inequalities

1. Which graph shows the solution to $4 - 2x > -2$?



2. Which graph shows the solution to $2x - 10 \geq 4$?



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A.5a (c) Solving multistep linear noncompound inequalities.

1. What are the values of x if $-2(x + 4) > 6x - 4$?

A $x < -\frac{4}{5}$

B $x > -\frac{1}{2}$

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

D $x > \frac{4}{5}$

2. What are the values of x if $2(4 - x) > 5x + 8$?

A $x < -8$

B $x < 0$

C $x > 0$

D $x > 8$

3. What are the values of x if $4(2x - 3) < 4(x - 4)$?

A $x < -1$

B $x > -1$

C $x < 1$

D $x > 1$

4. What are the values of x if $3(x + 4) - 5(x - 1) < 5$?

A $x < -6$

B $x > -6$

C $x < 6$

D $x > 6$