

B.

6. $7x - 5 \geq 5$

Step 1. $7x - 5 \geq 5$

Step 2. $7x - 5 + 5 \geq 5 + 5$

Step 3. $7x \geq 10$

Step 4. $\frac{7x}{7} \geq \frac{10}{7}$

Step 5. $x \geq \frac{10}{7}$

7. $10 - 6x \leq 2$

Step 1. $10 - 6x \leq 2$

Step 2. $10 - 6x - 10 \leq 2 - 10$

Step 3. $-6x \leq -8$

Step 4. $\frac{-6x}{-6} \geq \frac{-8}{-6}$

Step 5. $x \geq \frac{4}{3}$

8. $|6x - 7| = 3$

Step 1. $|x| = x$ (if x is zero or a positive number).

$|x| = -x$ (if x is a negative number)

Step 2. $6x - 7 = 3$, and $6x - 7 = -3$

Step 3. Solve each equation.

a. $6x - 7 = 3$

$$10. 4 < 2x + 2 < 10$$

$$\text{Step 1. } 4 < 2x + 2 < 10$$

$$\text{Step 2. } 4 - 2 < 2x + 2 - 2 < 10 - 2$$

$$\text{Step 3. } 2 < 2x < 8$$

$$\text{Step 4. } \frac{2}{2} < \frac{2x}{2} < \frac{8}{2}$$

$$\text{Step 5. } 1 < x < 4$$

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