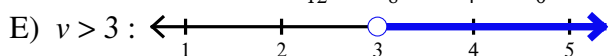
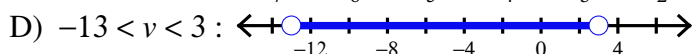
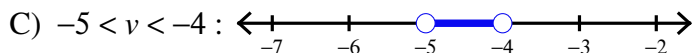
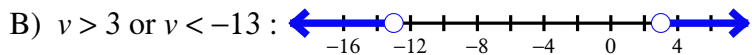
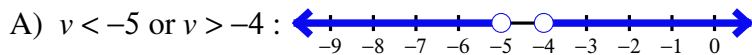


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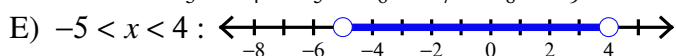
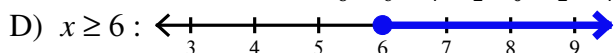
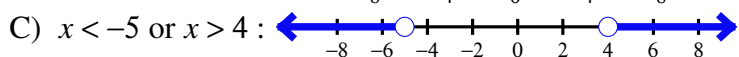
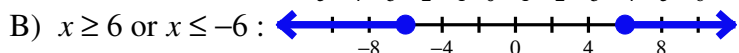
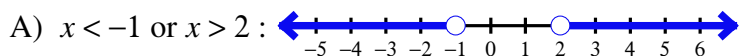
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Solve each inequality and graph its solution.

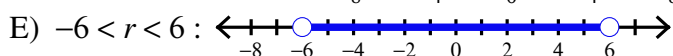
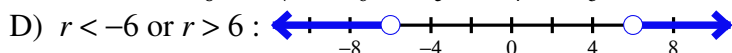
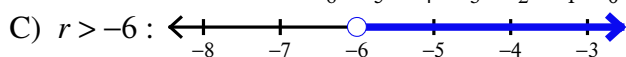
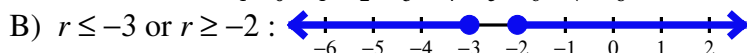
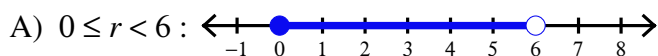
1) $|v + 5| > 8$



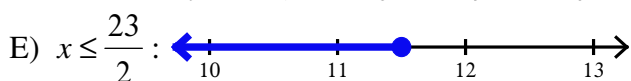
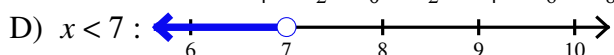
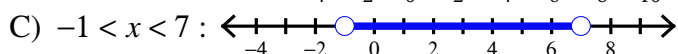
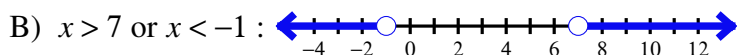
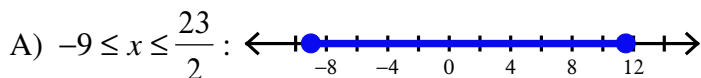
2) $\left|\frac{x}{3}\right| \geq 2$



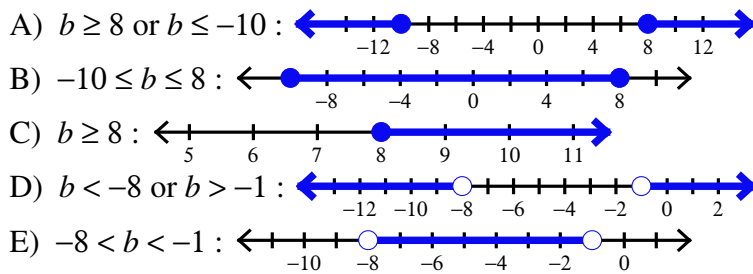
3) $|-2r| < 12$



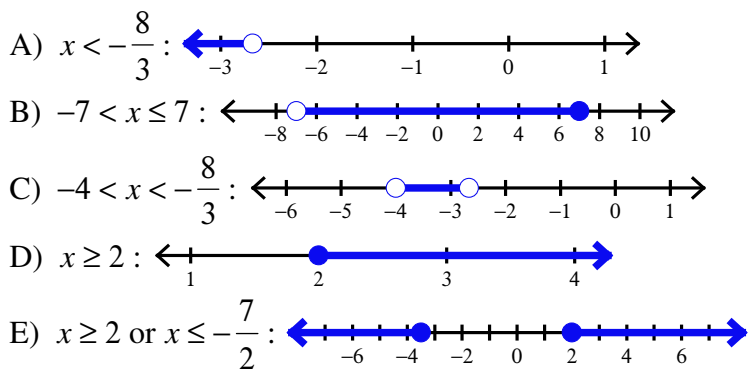
4) $|x - 3| < 4$



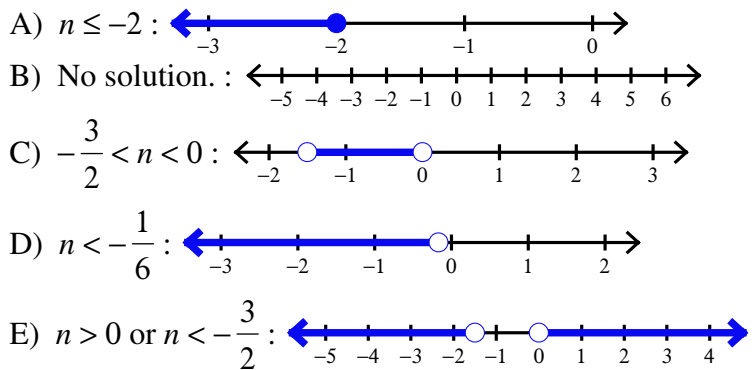
5) $|-2b - 9| > 7$



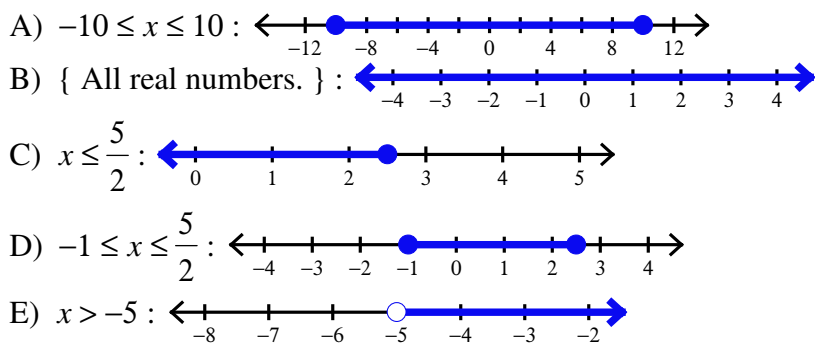
6) $|10 + 3x| < 2$



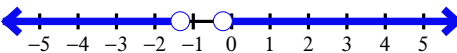
7) $7|8n + 6| > 42$

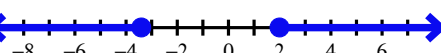


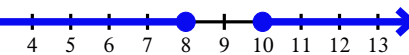
8) $\frac{|10x + 10|}{10} > -4$

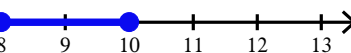


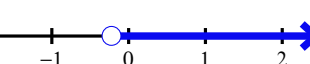
$$9) \frac{|9x+7|}{5} > 1$$

A) $x > -\frac{2}{9}$ or $x < -\frac{4}{3}$: 

B) $x \geq 2$ or $x \leq -\frac{17}{5}$: 

C) $x \leq 8$ or $x \geq 10$: 

D) $8 \leq x \leq 10$: 

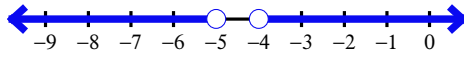
E) $x > -\frac{2}{9}$: 

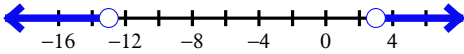
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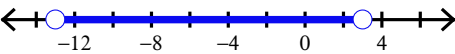
Solve each inequality and graph its solution.

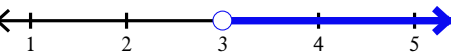
1) $|v + 5| > 8$

A) $v < -5$ or $v > -4$: 

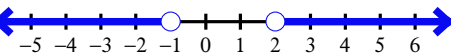
*B) $v > 3$ or $v < -13$: 

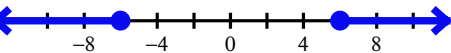
C) $-5 < v < -4$: 

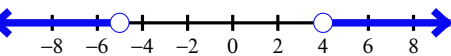
D) $-13 < v < 3$: 

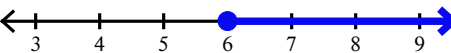
E) $v > 3$: 

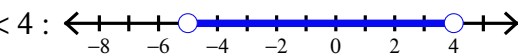
2) $\left|\frac{x}{3}\right| \geq 2$

A) $x < -1$ or $x > 2$: 

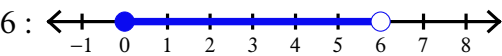
*B) $x \geq 6$ or $x \leq -6$: 

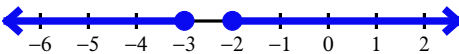
C) $x < -5$ or $x > 4$: 

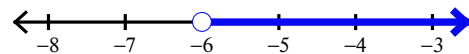
D) $x \geq 6$: 

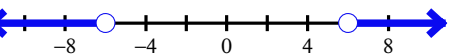
E) $-5 < x < 4$: 

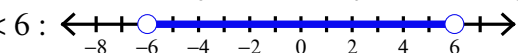
3) $|-2r| < 12$

A) $0 \leq r < 6$: 

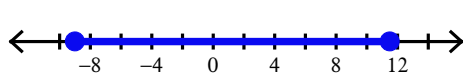
B) $r \leq -3$ or $r \geq -2$: 

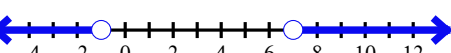
C) $r > -6$: 

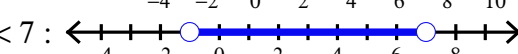
D) $r < -6$ or $r > 6$: 

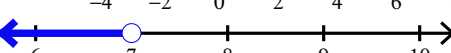
*E) $-6 < r < 6$: 

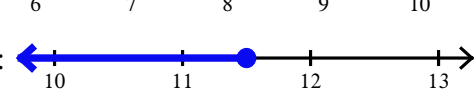
4) $|x - 3| < 4$

A) $-9 \leq x \leq \frac{23}{2}$: 

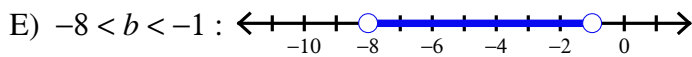
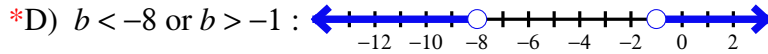
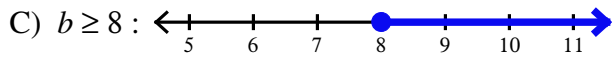
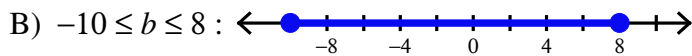
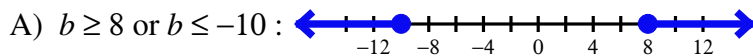
B) $x > 7$ or $x < -1$: 

*C) $-1 < x < 7$: 

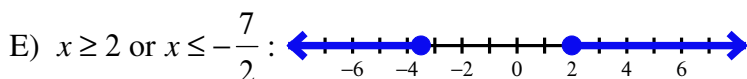
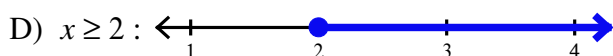
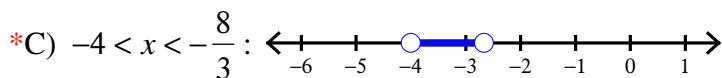
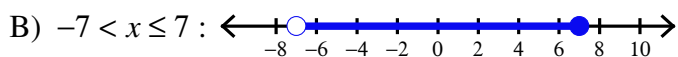
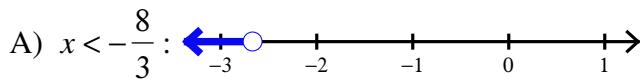
D) $x < 7$: 

E) $x \leq \frac{23}{2}$: 

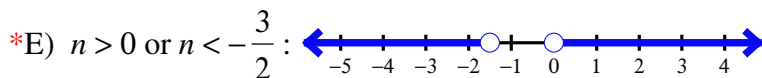
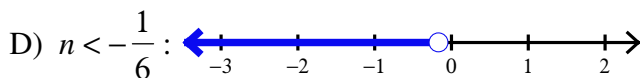
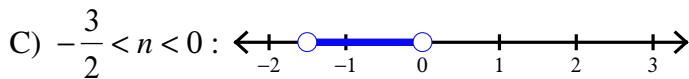
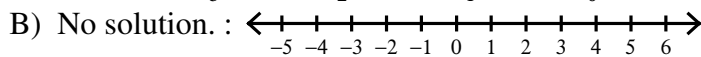
5) $|-2b - 9| > 7$



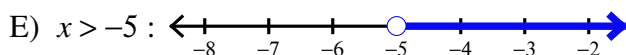
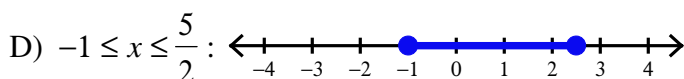
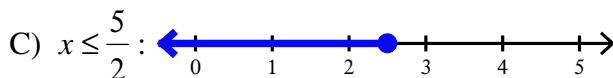
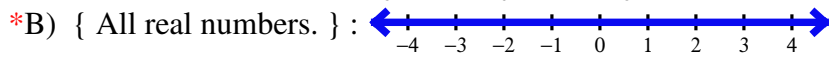
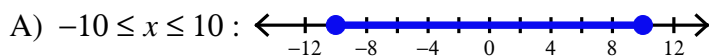
6) $|10 + 3x| < 2$



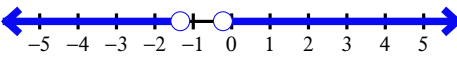
7) $7|8n + 6| > 42$

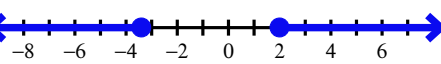


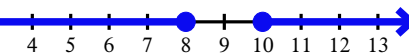
8) $\frac{|10x + 10|}{10} > -4$

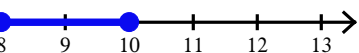


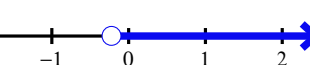
$$9) \frac{|9x+7|}{5} > 1$$

*A) $x > -\frac{2}{9}$ or $x < -\frac{4}{3}$:  A number line from -5 to 5 with tick marks every 1 unit. There are open circles at -4/3 (approximately -1.33) and -2/9 (approximately -0.22). Blue arrows point outwards from these circles, representing the solution set $x < -4/3$ or $x > -2/9$.

B) $x \geq 2$ or $x \leq -\frac{17}{5}$:  A number line from -8 to 6 with tick marks every 2 units. There are closed circles at -17/5 (approximately -3.4) and 2. Blue arrows point outwards from these circles, representing the solution set $x \leq -17/5$ or $x \geq 2$.

C) $x \leq 8$ or $x \geq 10$:  A number line from 3 to 13 with tick marks every 1 unit. There are closed circles at 8 and 10. Blue arrows point outwards from these circles, representing the solution set $x \leq 8$ or $x \geq 10$.

D) $8 \leq x \leq 10$:  A number line from 7 to 13 with tick marks every 1 unit. There are closed circles at 8 and 10. A blue line segment connects these two circles, representing the solution set $8 \leq x \leq 10$.

E) $x > -\frac{2}{9}$:  A number line from -3 to 2 with tick marks every 1 unit. There is an open circle at -2/9 (approximately -0.22). A blue arrow points to the right from this circle, representing the solution set $x > -2/9$.