

Solve each equation.

1) $3|4 + 6n| + 8 = -70$

3) $5|3x - 6| - 8 = 112$

5) $6|9x - 7| - 4 = 38$

7) $1 + 10|5p + 1| = 11$

2) $7|2n + 7| + 4 = 25$

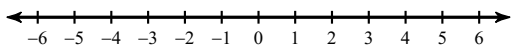
4) $-9|5n + 1| - 8 = -44$

6) $4|8n - 8| - 2 = 62$

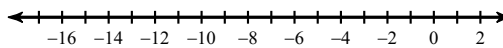
8) $10|3x + 8| - 10 = -20$

Solve each inequality and graph its solution.

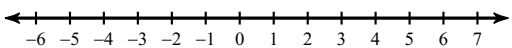
9) $3 - 8|8x + 3| \leq -21$



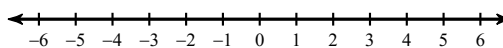
10) $-9|n + 8| - 3 \leq -57$



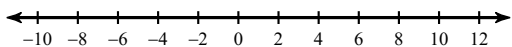
11) $5|7n - 1| + 2 \leq -38$



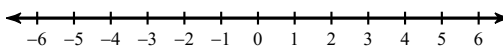
12) $|6n + 7| - 2 > -25$



13) $2|5r - 6| + 10 \geq 88$

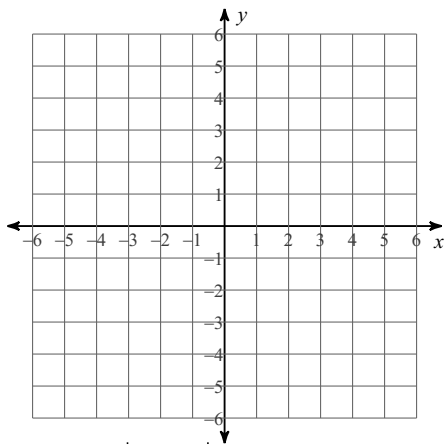


14) $4|7p - 4| + 4 < 76$

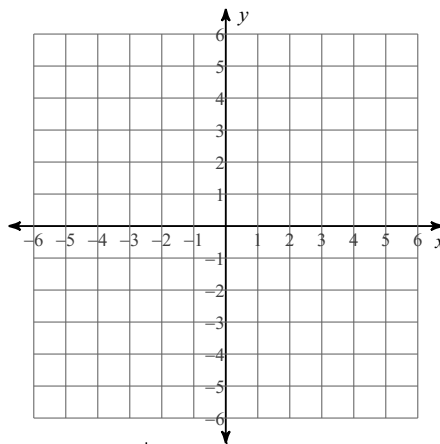


Graph each equation. State the Domain and Range

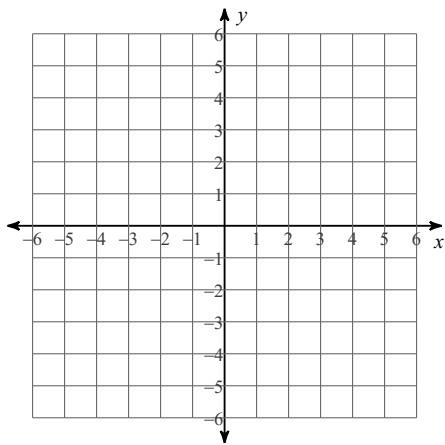
15) $y = -2|x - 4|$



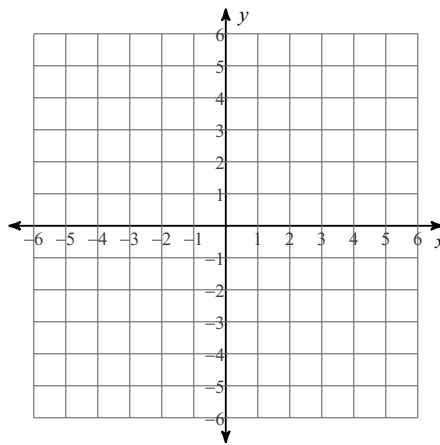
16) $y = -3|x + 3| - 2$



17) $y = 2|x - 1| + 3$



18) $y = -2|x + 4|$



Solve each equation.

1) $3|4 + 6n| + 8 = -70$ **No solution.**

3) $5|3x - 6| - 8 = 112$ $\left\{ \frac{10}{3}, -6 \right\}$

5) $6|9x - 7| - 4 = 38$ $\left\{ \frac{9}{6}, 0 \right\}$

7) $1 + 10|5p + 1| = 11$ $\left\{ 0, -\frac{2}{5} \right\}$

2) $7|2n + 7| + 4 = 25$ $\{-2, -5\}$

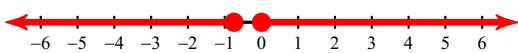
4) $-9|5n + 1| - 8 = -44$ $\left\{ \frac{3}{5}, -1 \right\}$

6) $4|8n - 8| - 2 = 62$ $\{3, 5\}$

8) $10|3x + 8| - 10 = -20$ **No solution.**

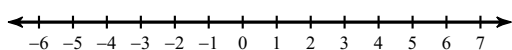
Solve each inequality and graph its solution.

9) $3 - 8|8x + 3| \leq -21$



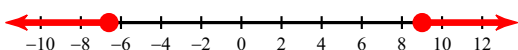
$x \geq 0$ or $x \leq -\frac{3}{4}$

11) $5|7n - 1| + 2 \leq -38$



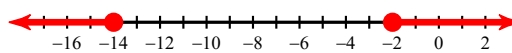
No solution.

13) $2|5r - 6| + 10 \geq 88$



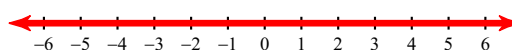
$r \geq 9$ or $r \leq -\frac{33}{5}$

10) $-9|n + 8| - 3 \leq -57$



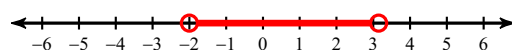
$n \geq -2$ or $n \leq -14$

12) $|6n + 7| - 2 > -25$



{ All real numbers. }

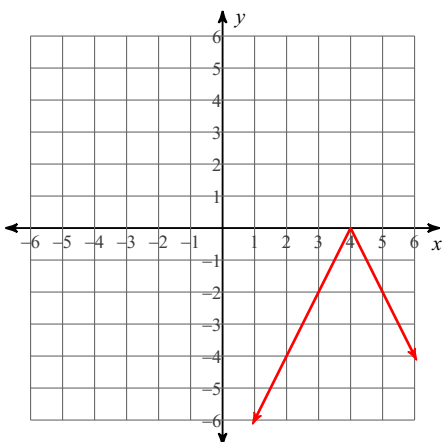
14) $4|7p - 4| + 4 < 76$



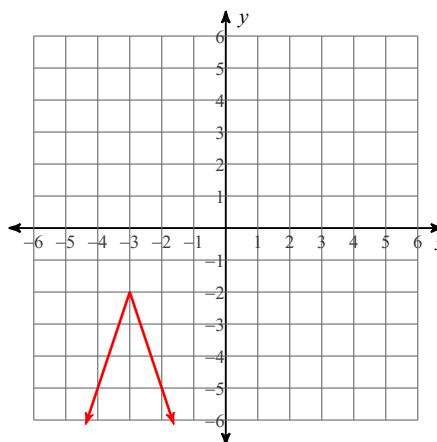
$-2 < p < \frac{22}{7}$

Graph each equation. State the Domain and Range

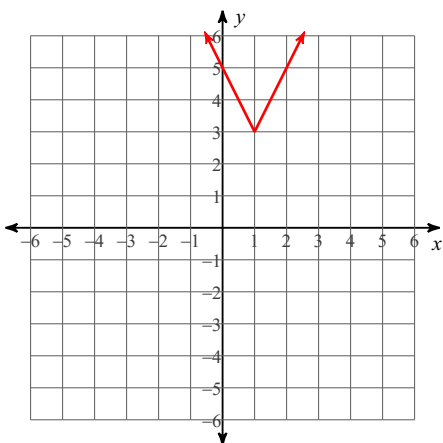
15) $y = -2|x - 4|$



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