

Assignment

Date _____ Period _____

Solve each equation.

1) $2|5x + 2| + 3 = 19$

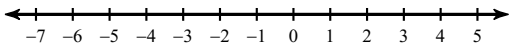
2) $7|-3n - 10| + 6 = 55$

3) $-5|2 - 2a| + 6 = -54$

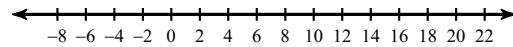
4) $5|5n - 5| - 8 = 17$

Solve each inequality and graph its solution.

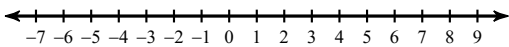
5) $6|8 + 10x| + 5 \leq 77$



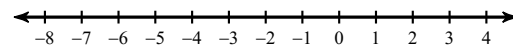
6) $5 + 8|-6 + x| \leq 109$



7) $2 + |4 - 5r| \leq 28$

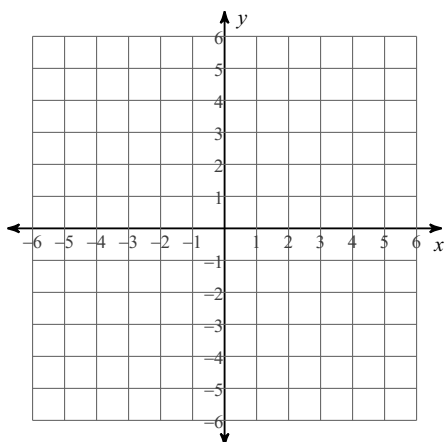


8) $6|6a + 4| + 8 \geq 20$

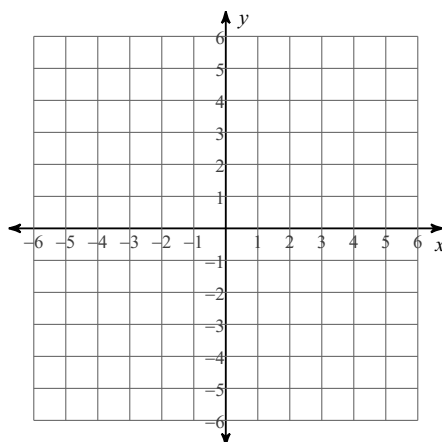


Graph each equation.

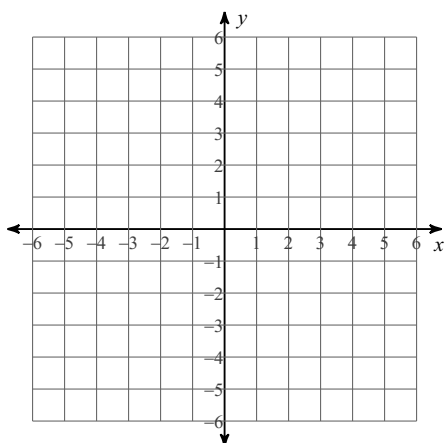
9) $y = -3|x - 3|$



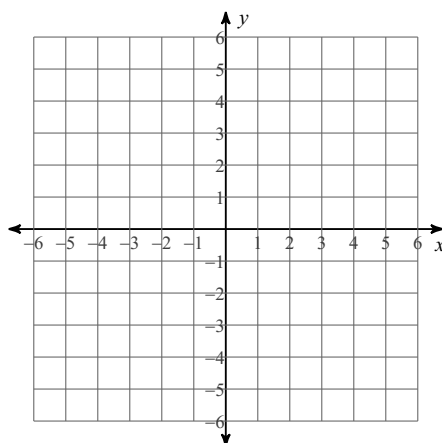
10) $y = -2|x + 3| - 1$



11) $y = -3|x + 1| - 4$



12) $y = 2|x + 1|$



Solve each system by elimination.

13)
$$\begin{aligned} -2x - y + 3z &= -14 \\ -4x + 3y + 4z &= -1 \\ -3x - 3y + 3z &= -27 \end{aligned}$$

14)
$$\begin{aligned} -5x - 4y + 2z &= -13 \\ 5x - 2y - 5z &= -2 \\ 3x - 2y - 3z &= -2 \end{aligned}$$

15)
$$\begin{aligned} -3x + y + z &= 16 \\ -6x + 4y - 6z &= 2 \\ -4x - y + 3z &= 18 \end{aligned}$$

16)
$$\begin{aligned} -5x - 2y - 6z &= -5 \\ x - y + 4z &= -6 \\ 4x + y + z &= 1 \end{aligned}$$