

2-7 Graphing Absolute Value Functions

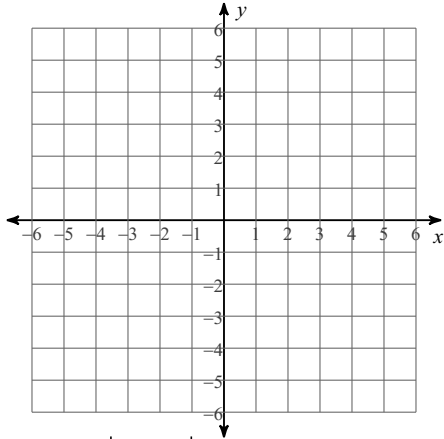
Name \_\_\_\_\_

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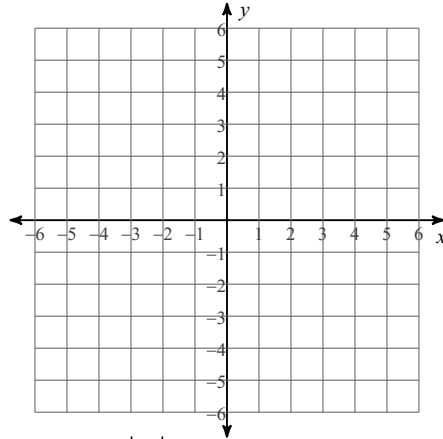
Hour \_\_\_\_\_

Graph each equation.

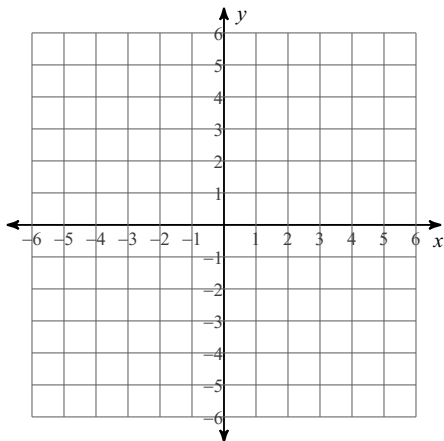
1)  $y = 2|x - 4|$



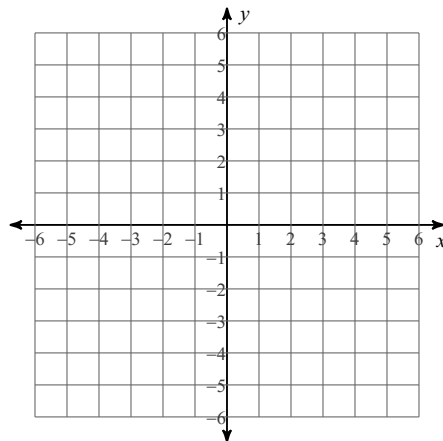
2)  $y = -3|x + 1| + 1$



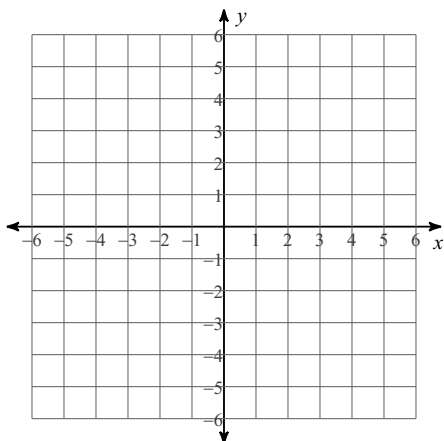
3)  $y = 3|x + 3| - 2$



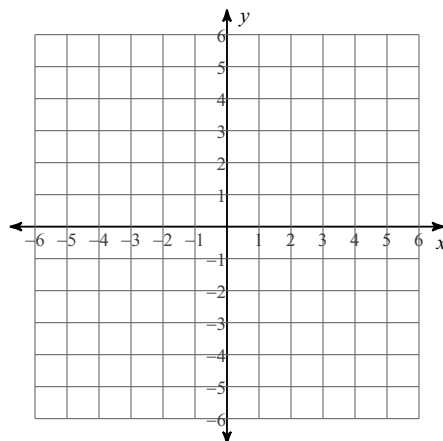
4)  $y = -2|x| - 3$



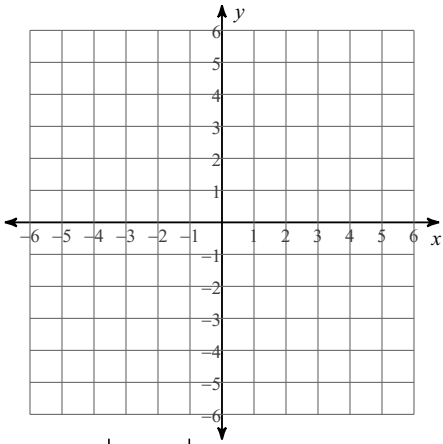
5)  $y = -3|x - 1| + 2$



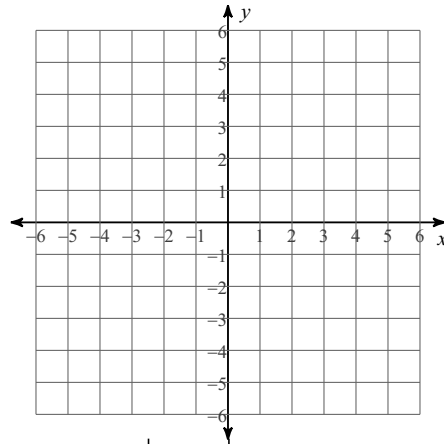
6)  $y = 2|x| - 4$



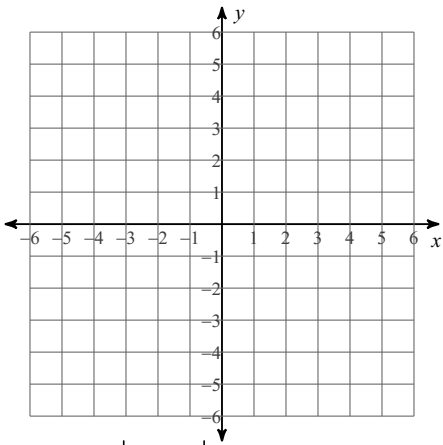
$$7) y = 3|x + 3|$$



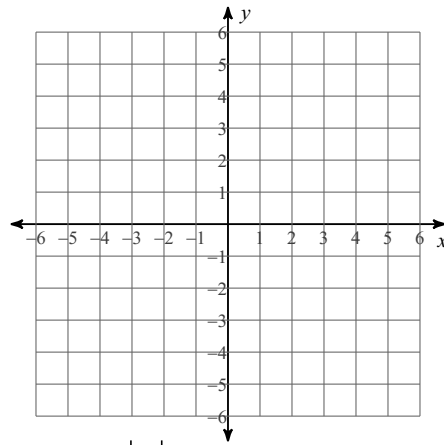
$$8) y = -2|x + 2| + 3$$



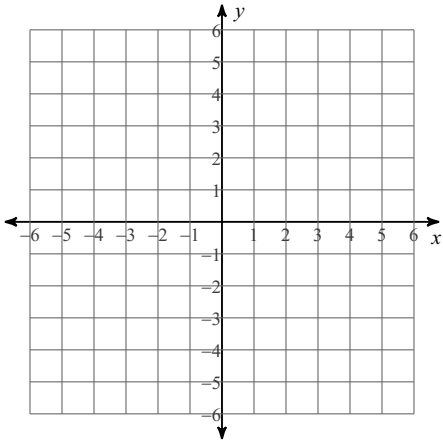
$$9) y = 2|x - 3| - 4$$



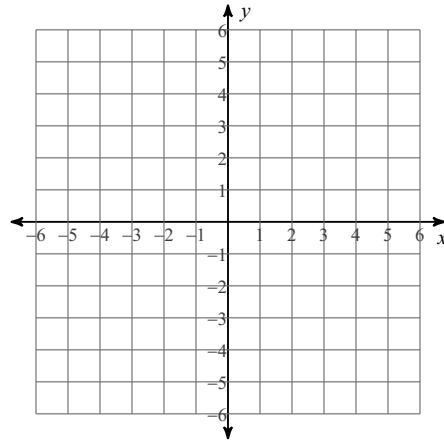
$$10) y = -3|x + 4| + 2$$



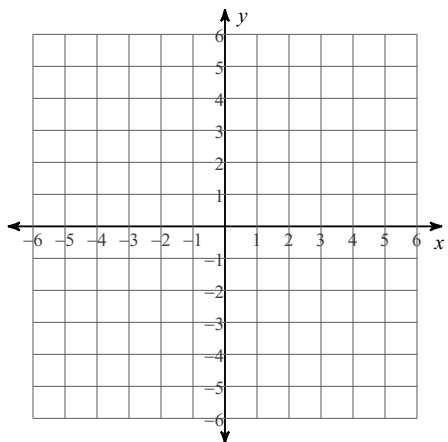
$$11) y = 3|x + 4| + 4$$



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

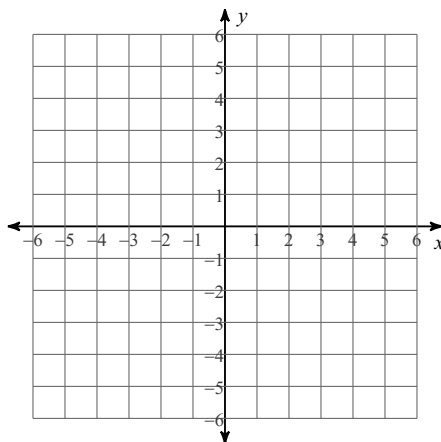


$$13) y = 3|x - 4| - 1$$

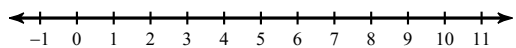


**Solve each inequality and graph its solution.**

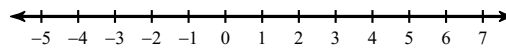
$$14) y = -2|x + 4|$$



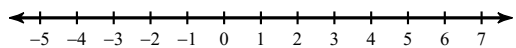
$$15) -6|x - 4| < -6$$



$$16) |-2a| - 4 \leq -2$$



$$17) -6|5m| < -30$$



$$18) |x - 3| - 6 \geq -4$$

