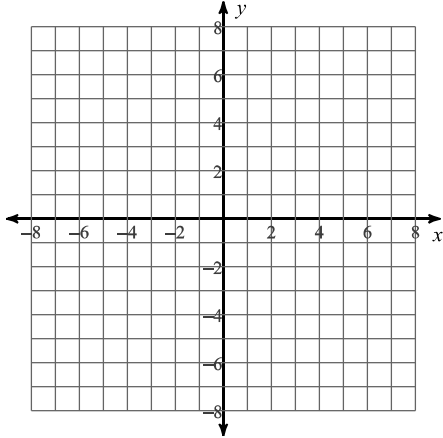


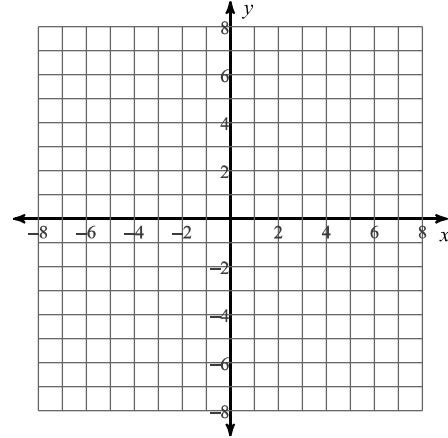
**Graph**

1. When  $y = a|x - h| + k$ , plot the vertex point  $(h, k)$ .
2. Plot another point and use symmetry to complete the V-Shape.
3. When  $y$  is greater than or greater than or equal to, shade above the "V".
4. When  $y$  is less than or less than or equal to, shade below the "V".
5. Pay attention to solid and dotted lines.

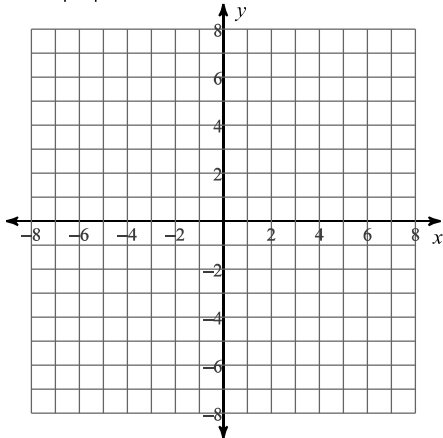
1)  $y = |x - 1| + 3$



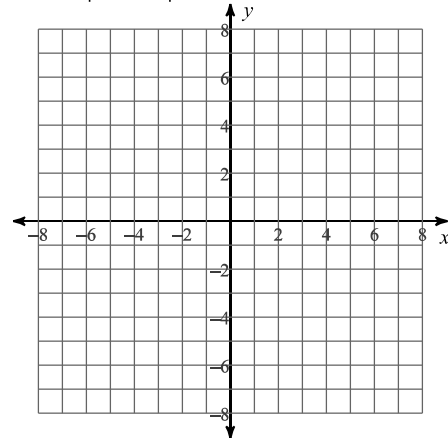
2)  $y > |x + 3| - 2$



3)  $y < |x| - 4$



4)  $y \leq -|x + 2|$



2-8 Inequalities and Absolute Value

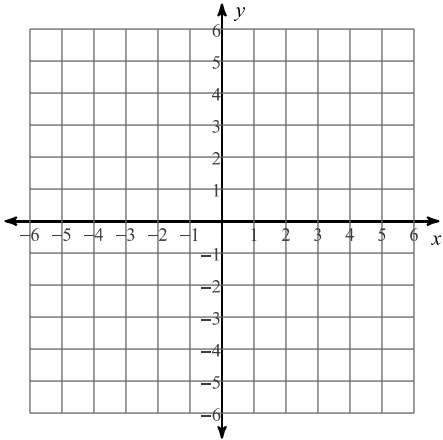
Name \_\_\_\_\_

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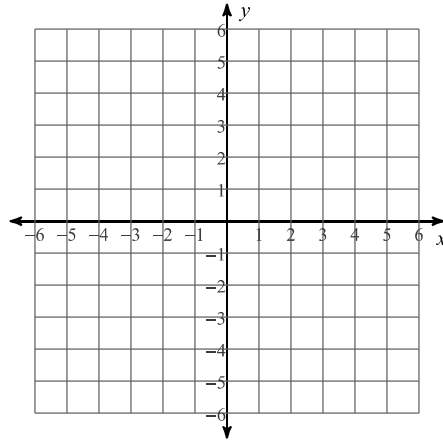
Hour \_\_\_\_\_

Sketch the graph of each linear inequality.

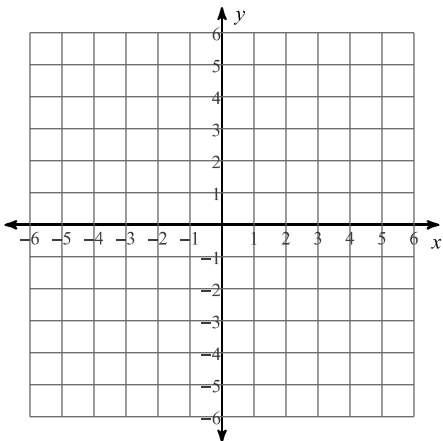
1)  $7x + 2y > 8$



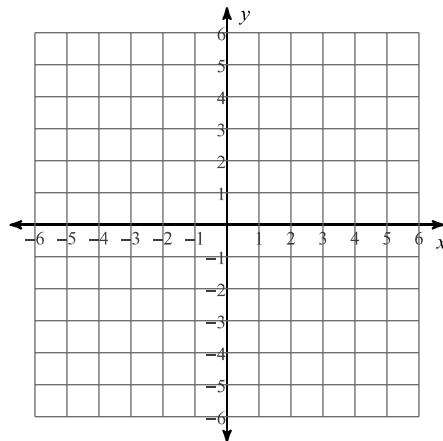
2)  $x - y \geq -2$



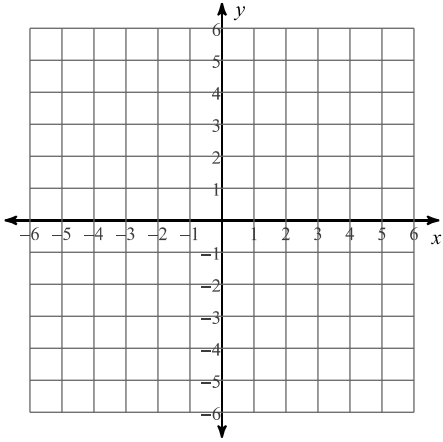
3)  $8x - 5y \leq 20$



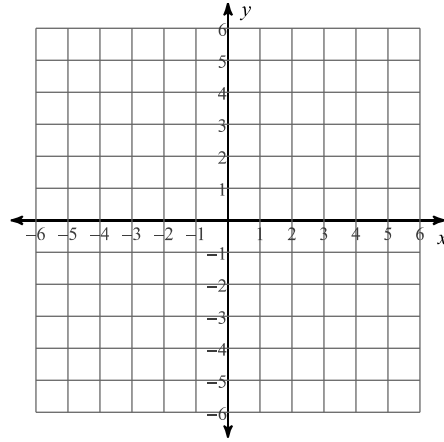
4)  $5x - 4y > -12$



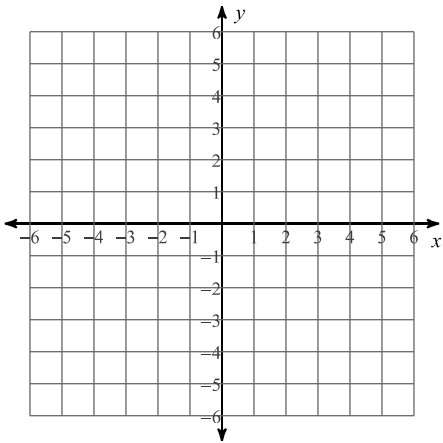
5)  $x + y > -1$



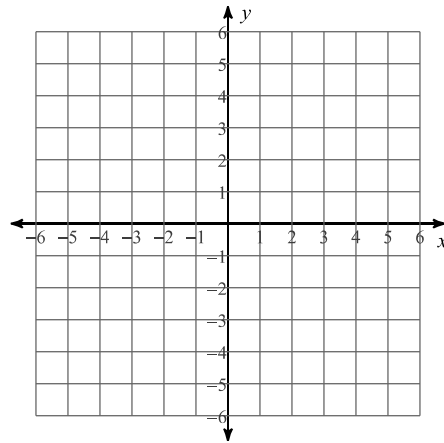
6)  $3x + 5y \geq -15$



7)  $x - 2y \geq 6$

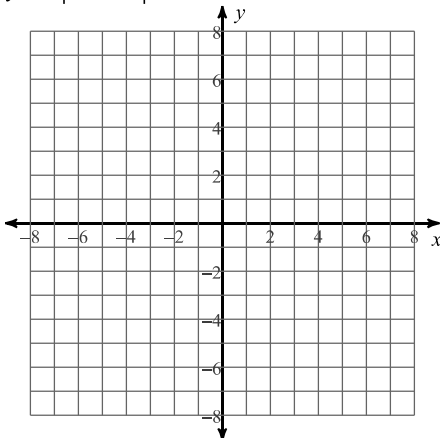


8)  $x < 4$

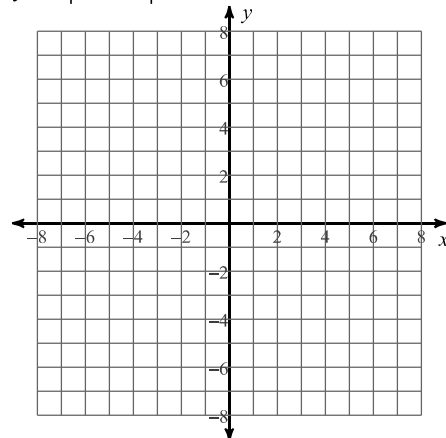


**Graph.**

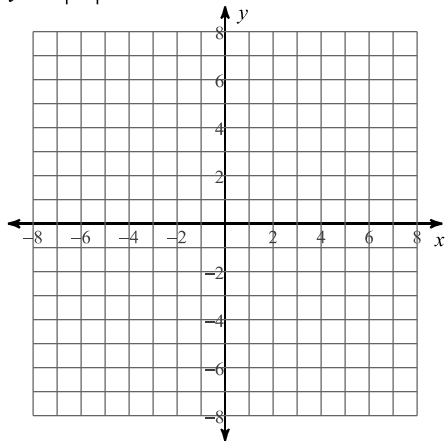
9)  $y \geq |x - 2| + 4$



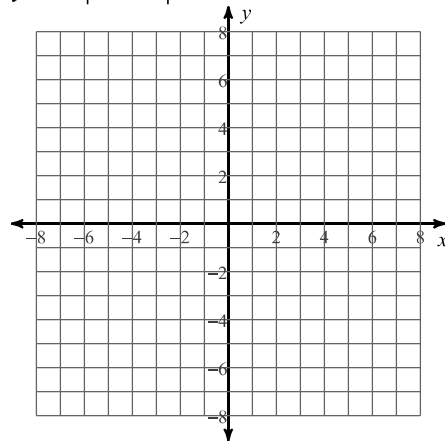
10)  $y > |x + 2| - 1$



11)  $y < |x| - 2$



12)  $y \leq -|x + 3|$



**Complete each part.**

13) You need to make at least 150 sandwiches for a picnic. You are making tuna sandwiches and ham sandwiches.

a) Write an inequality for the number of sandwiches you can make.

b) Graph the inequality below.

c) Does the point (90, 80) satisfy the inequality? Explain.

