Name Period S4

Find the x and y intercept for each equation.

1. $2y + 4x = 12$

y-intercept:

x-intercept:

2. $-2x + y = 4$

y-intercept:

x-intercept:

3. $y + 2x = 6$

y-intercept:

x-intercept:

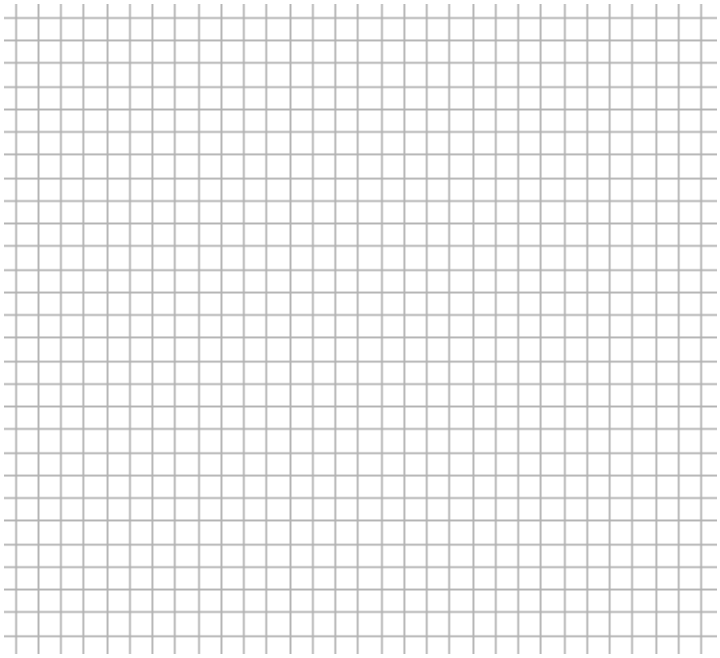
4. $4x + 2y = 12$

y-intercept:

x-intercept:

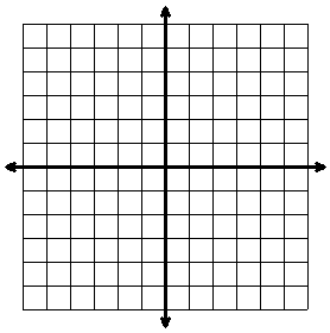
Write an inequality for the given scenario and then graph the inequality on the grid provided. Be sure to indicate all coordinates that satisfy the inequality.

5. Jennifer is helping sell tickets for a chess club fundraiser. She sells child and adult tickets to the event, child tickets cost $2 and adult tickets are $5. The chess club is attempting to raise at least $120. Write an inequality that could be used to find possible values for Jennifer's situation. Graph the inequality on the grid.

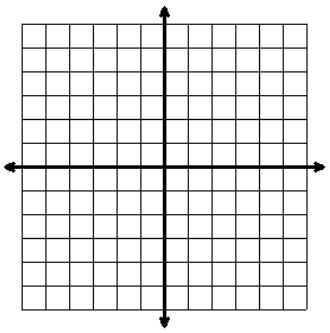


Graph the following inequalities.

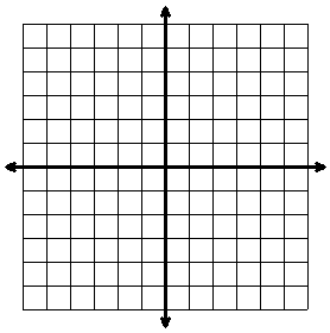
6. $y \leq 2x - 3$



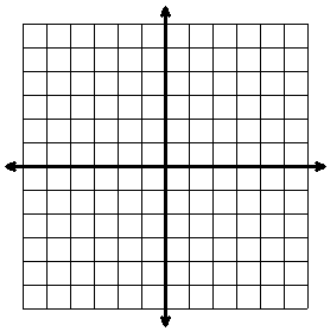
7. $y \leq -3x + 2$



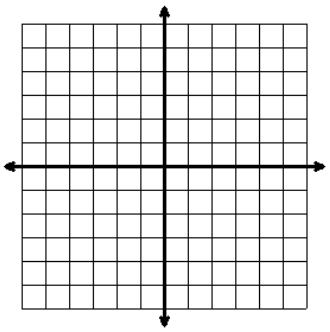
8. $y > x - 5$



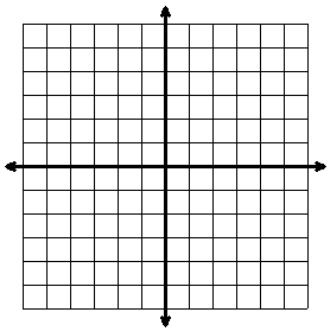
9. $2x + 3y < 12$



10. $4x + 3y \geq 24$



11. $x + 2y \leq 6$



Determine whether $h = 3$ is a solution to each problem.

12. $3(h - 4) = -3$

13. $3h = 2(h + 2) - 1$

14. $2h - 3 = h + 6$

15. $3h > -3$