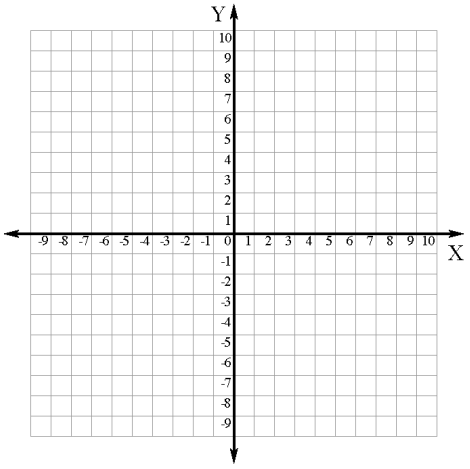
Graphing Linear Inequalities Homework Choice Board

Name_____

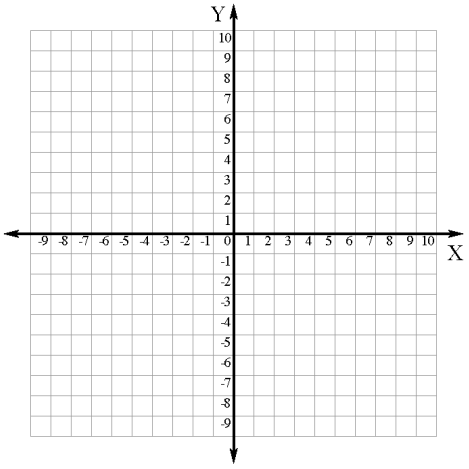
Choose linear inequality problems from this choice board and graph the solutions to accumulate 25 points.

Problems 1-6: Basic (3 points each)

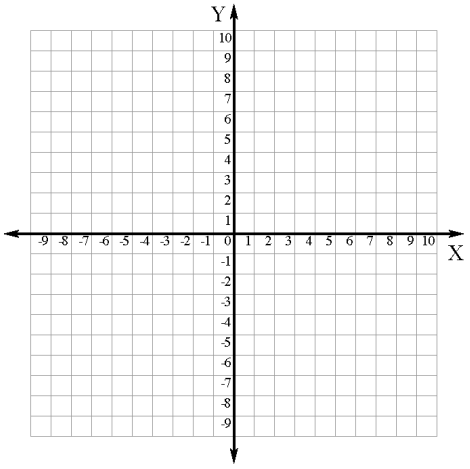
1. $y \geq -2x - 5$



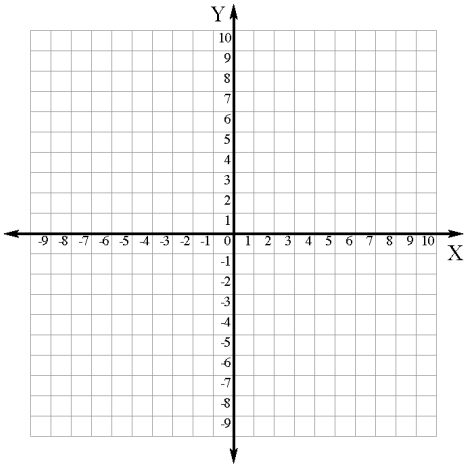
2. $y > 3x + 6$



3. $y \leq \frac{1}{2}x - 3$



4. $y < -5x + 4$



Coordinate planes created at http://www.themathworksheetsite.com

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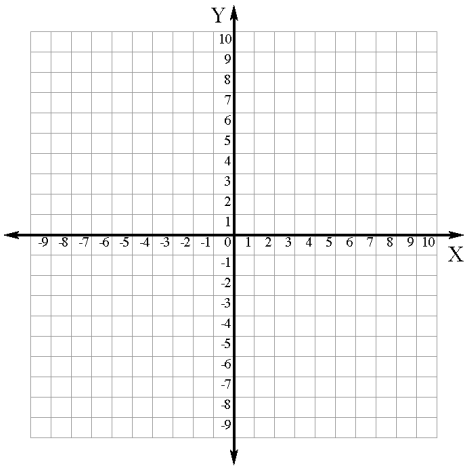
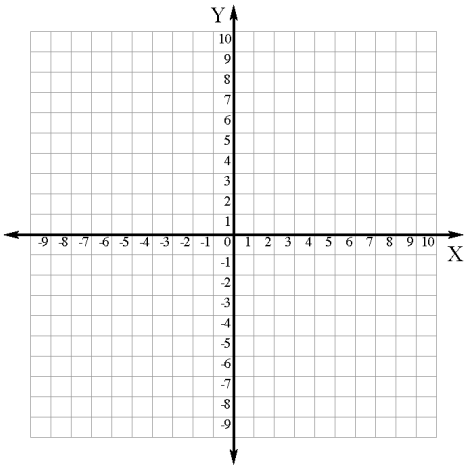
5. $y > \frac{2}{3}x + 7$

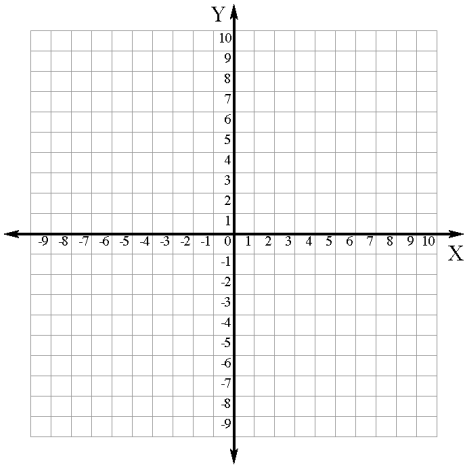


6. $y < -\frac{3}{4}x + 6$

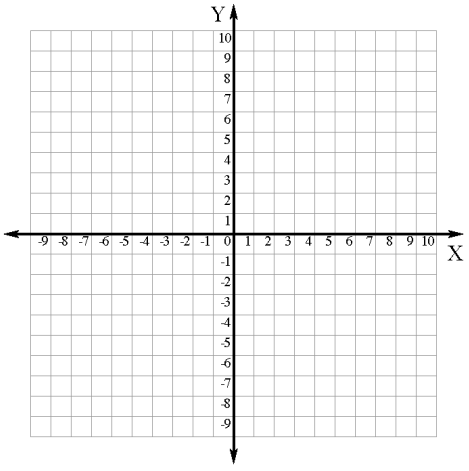


Problems 7-12: Moderate (5 points each)

7. $-4y > 8x + 12$



8. $3y + 4x < 12$



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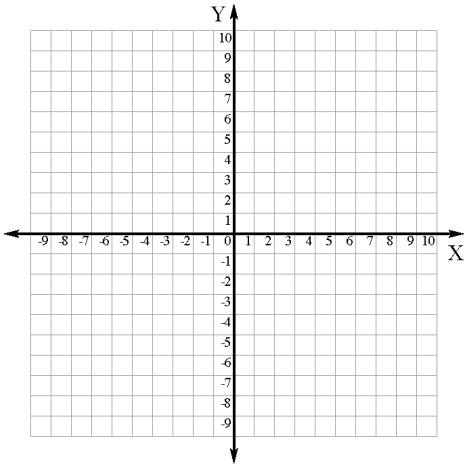
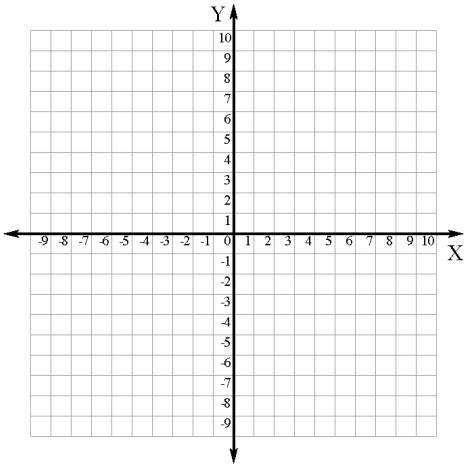
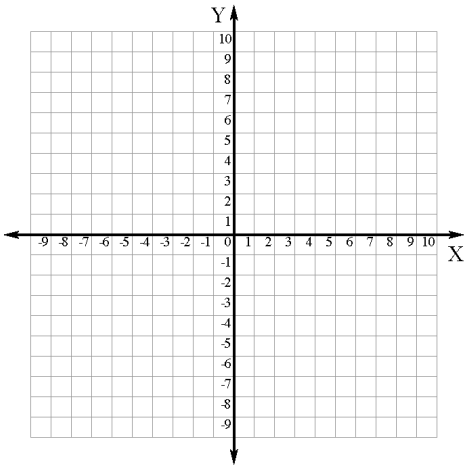
9. $5y + x > 2x + 10$



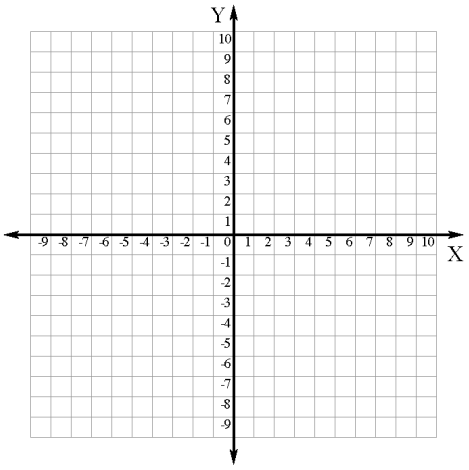
10. $3y < y - 4x + 6$



11. $5x + y < 4$



12. $5x - 3y > 6$



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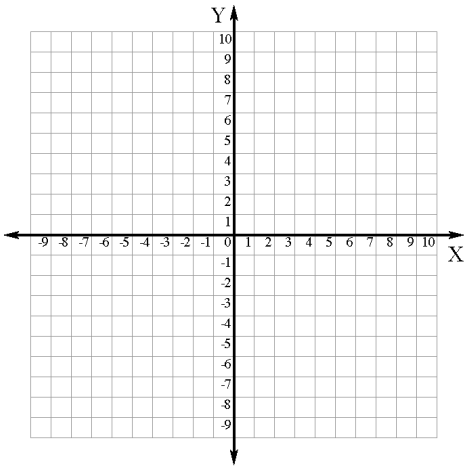
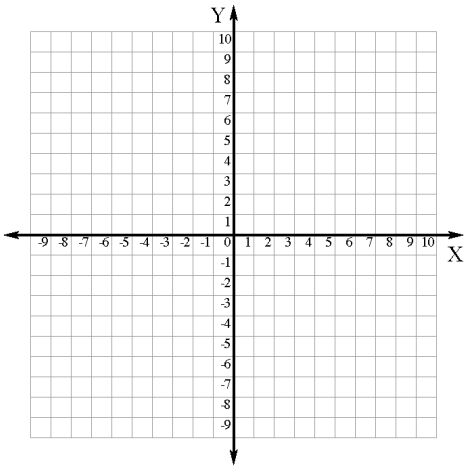
Problems 13-16: Hard (7 points each)

13. Nevaeh wants to buy music (CDs) and movies (DVDs) with her birthday money. She has $130 to spend. CDs cost $11.99 each and DVDs cost $15.99 each. Write an inequality representing all the possible combinations of CDs and DVDs she could buy and then graph it.

14. Xavier needs to complete at least 35 hours of community service to graduate. He plans to spend 3 hours on Saturdays at the local soup kitchen and 2 hours after school at the local library. Write an inequality representing all the possible combinations of 2-hour library and 3-hour soup kitchen shifts he can complete and then graph it.





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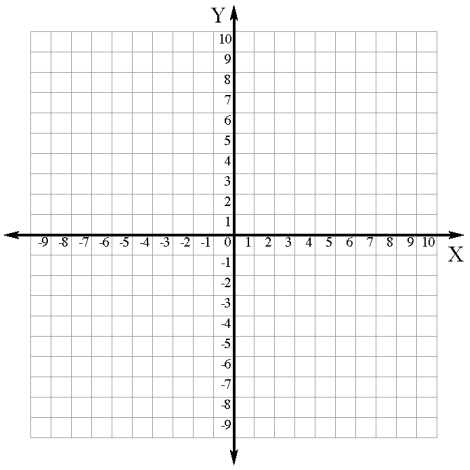
15. Jacqueline wants to spend no more than $37 while stocking up on ice cream and chocolate sauce. Ice cream costs $5 per carton and chocolate sauce costs $2 per jar. Write an inequality representing all the possible combinations of ice cream and chocolate sauce she could buy and then graph it.



16. The German club is having a bake sale and needs to raise $250. They plan to sell German chocolate cupcakes for $3.00 each and two-packs of Pfeffernuesse cookies for $2.00 each. Write an inequality representing all the possible combinations of cupcakes and cookies the club could sell and then graph it.