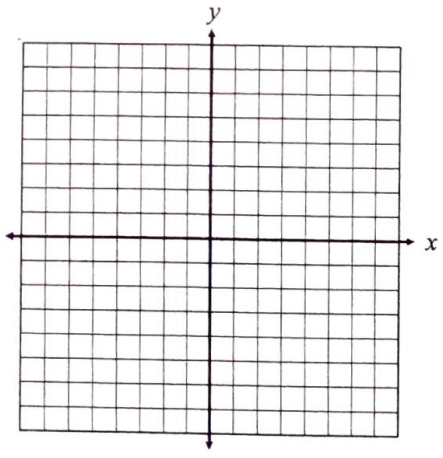
Name: _____

Date: _____ **Bell:** _____ **Homework 8:** Linear Inequalities

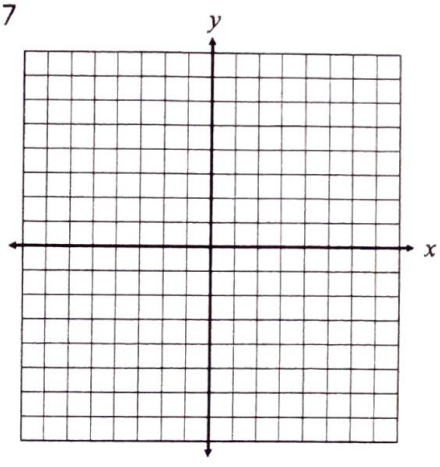
**** This is a 2-page document! ****

Graph each linear inequality to show all possible solutions.

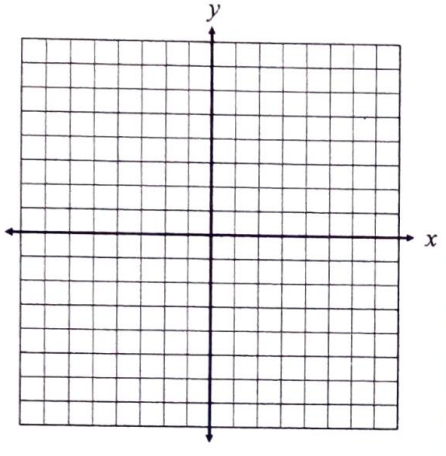
1. $y \leq \frac{5}{3}x - 4$



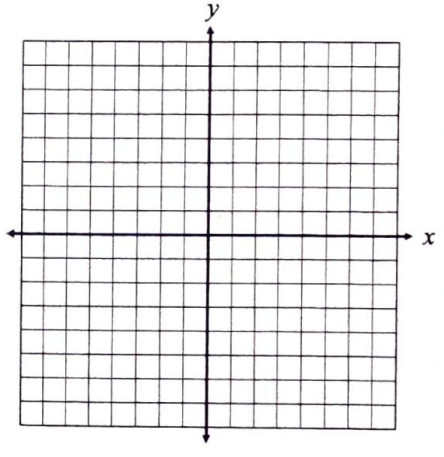
2. $y > -\frac{1}{2}x + 7$



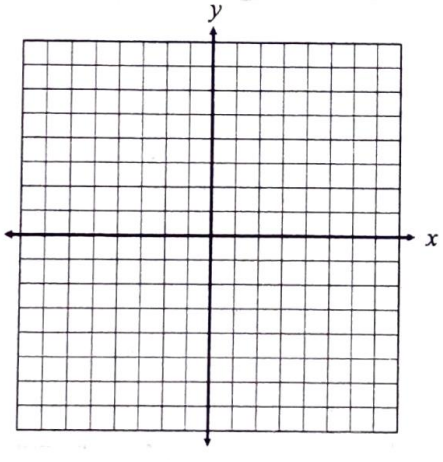
3. $2x + y < 1$



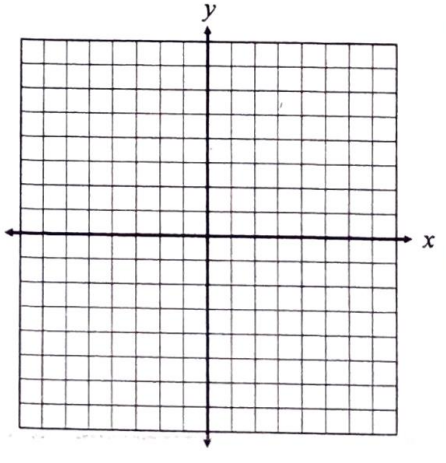
4. $2x - 5y \geq 30$



5. $x - y > 5$



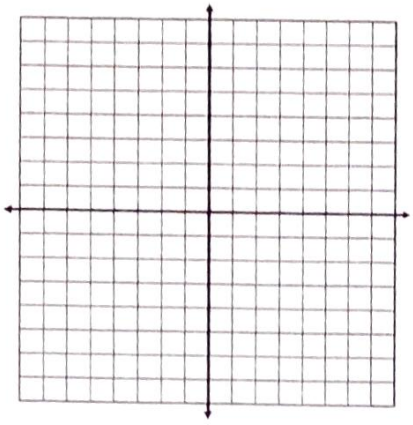
6. $2x - 6y \leq -24$



More with Linear Inequalities

7. Which ordered pair is a solution to the linear inequality below?

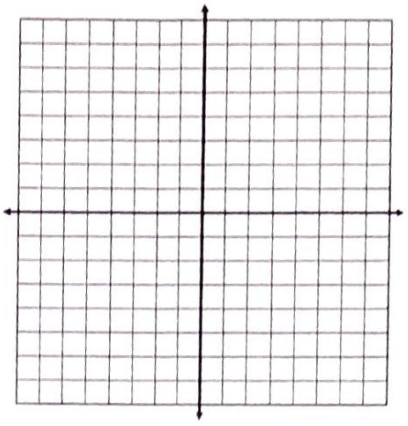
$$3x - 5y \geq 10$$



A. (1, 4)
B. (6, -3)
C. (-5, -2)
D. (2, 0)

8. Which ordered pair is a solution to the linear inequality below?

$$x + 4y < 4$$



A. (-3, 5)
B. (0, 4)
C. (2, 3)
D. (-8, -2)

9. Which ordered pair is a solution to the linear inequality below?

$$2x - 3y < 9$$

A. (6, -4)
B. (-1, -9)
C. (2, -5)
D. (-3, -3)

10. Which ordered pair is a solution to the linear inequality below?

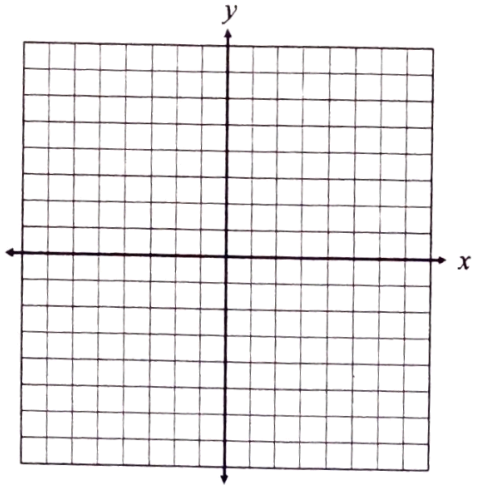
$$y \geq -2x + 7$$

A. (-1, 5)
B. (3, 2)
C. (2, -8)
D. (-4, 0)

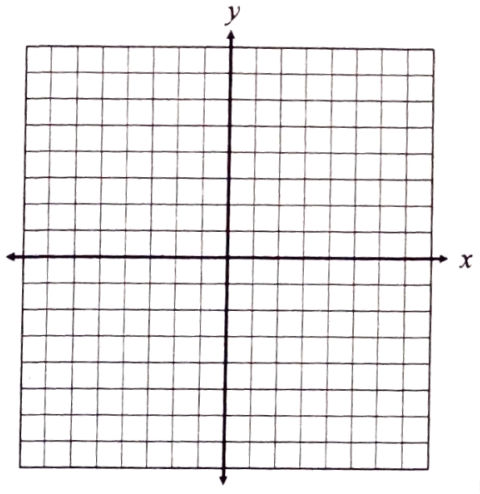
11. Identify the ordered pairs that are solutions to the linear inequality $5x - y > 4$?

☐ (4, 2)	☐ (-3, 1)
☐ (5, -2)	☐ (2, 7)
☐ (0, -1)	☐ (8, 4)

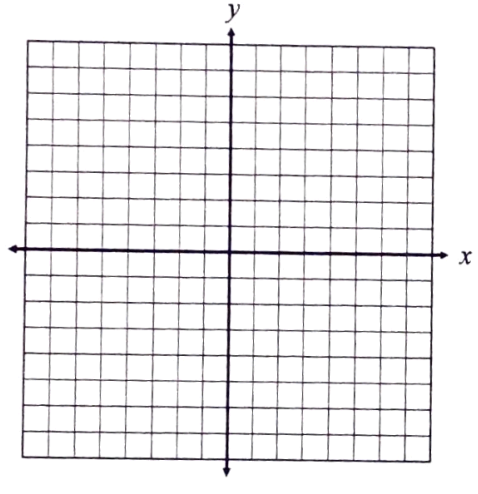
12. $x - 4y < 0$



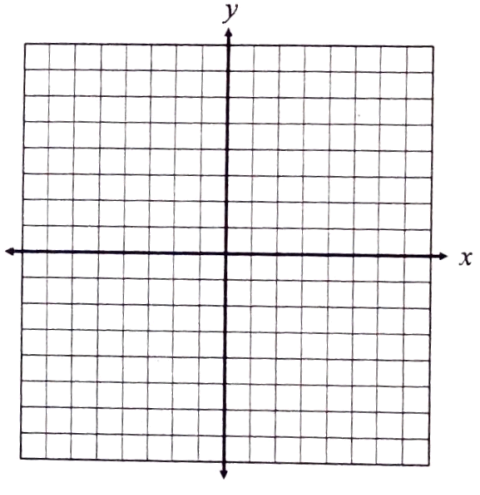
13. $2x + 7y \leq -7$



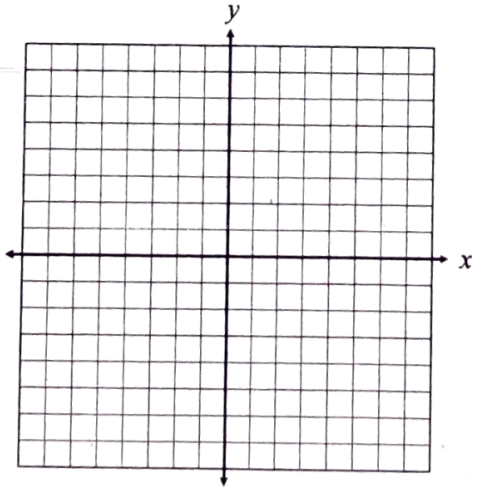
14. $5x - 4y \geq 28$



15. $12x + 8y < 24$



16. $x > -6$



17. $y \leq 1$