

NAME _____

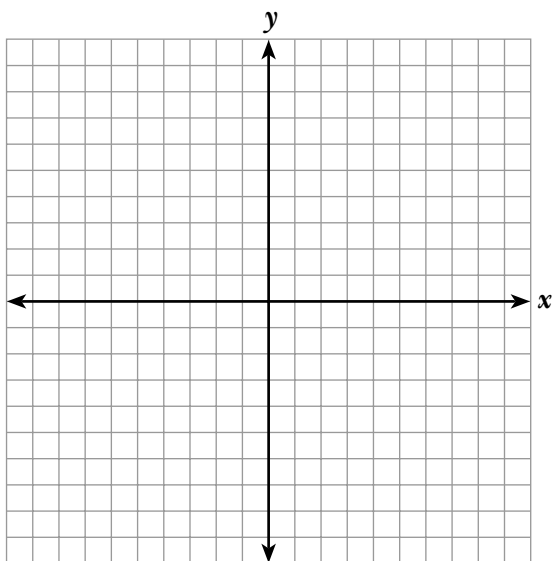
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Module 7 Solving Linear Equations and Inequalities of Two Variables
Lesson 3 Graphing Linear Inequalities of Two Variables

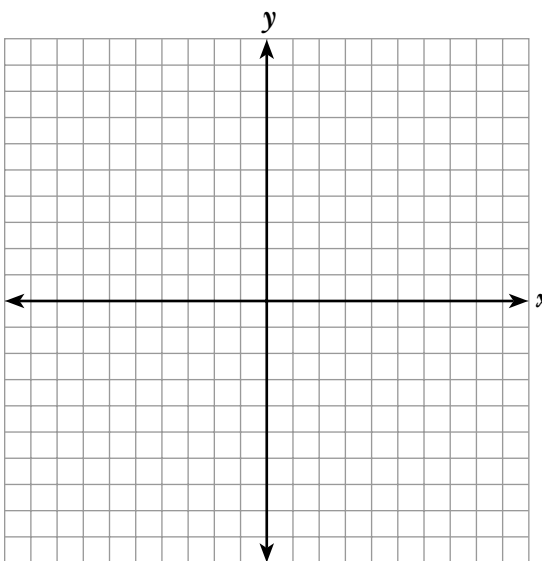
independent practice

Graph each inequality on a coordinate plane.

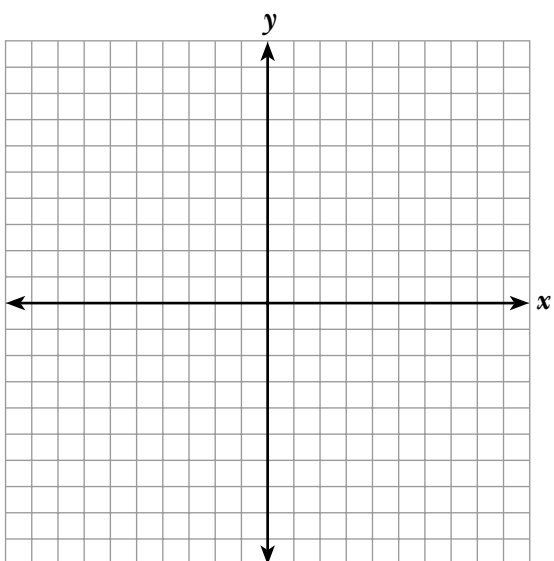
1. $y > 4$



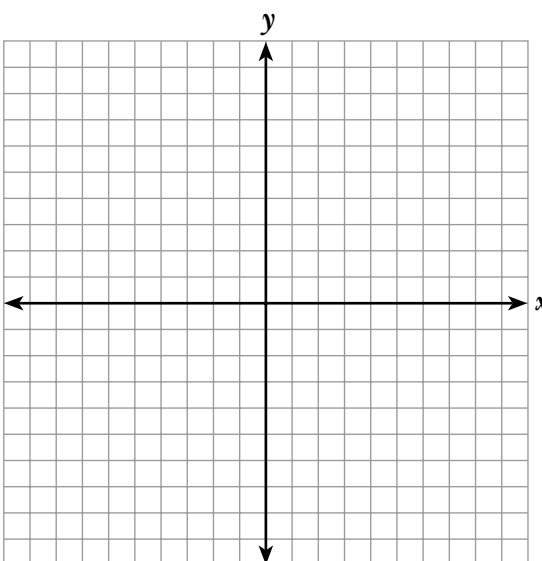
2. $x \leq -1$



3. $x < 5$



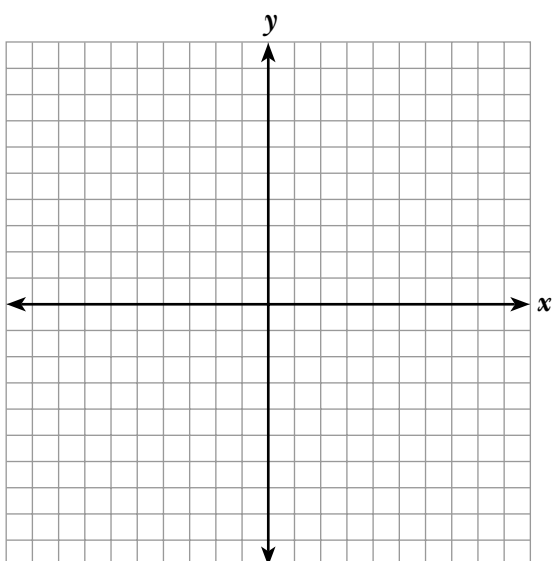
4. $y \geq 1$



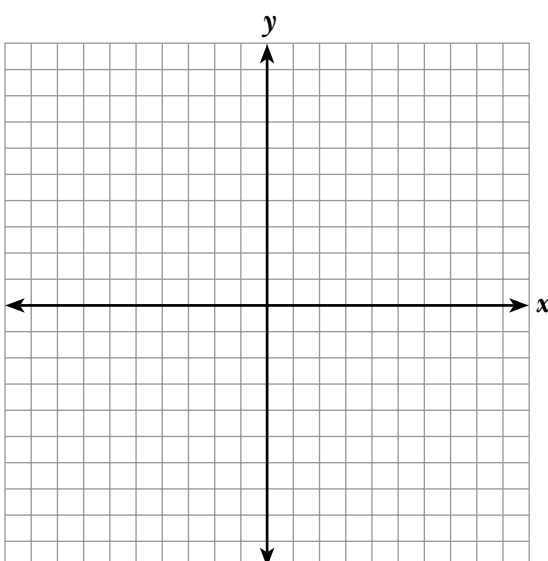
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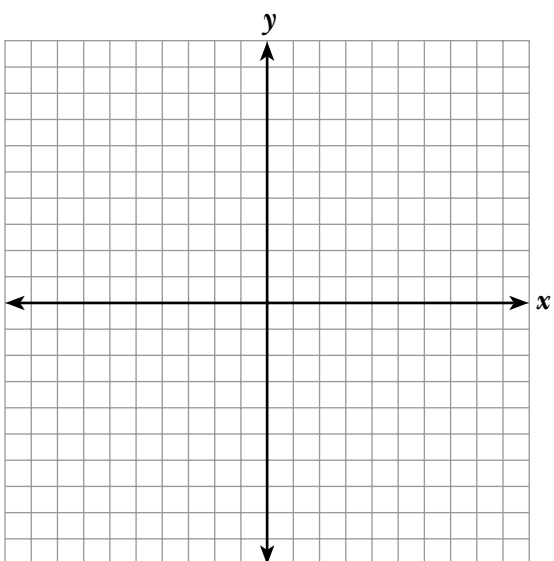
5. $y \geq x + 1$



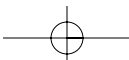
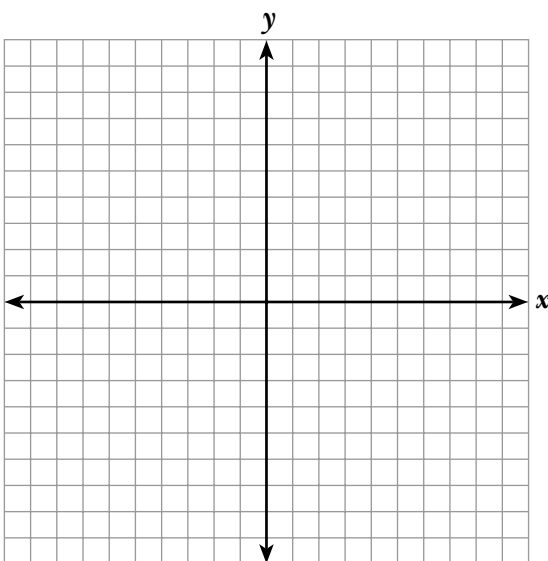
6. $y > 5x - 3$



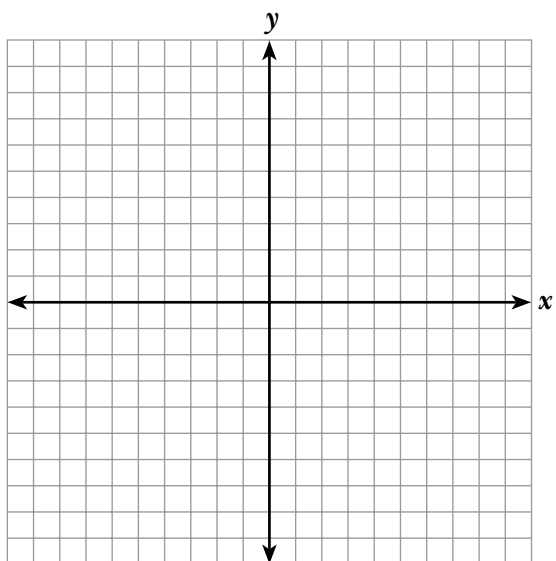
7. $y > x$



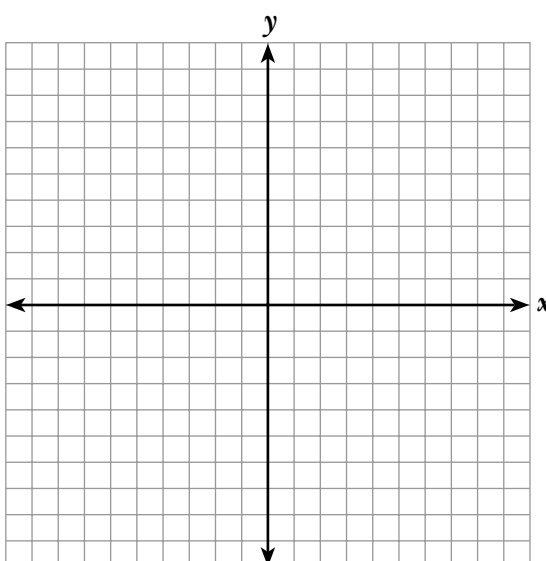
8. $y \leq x + 3$



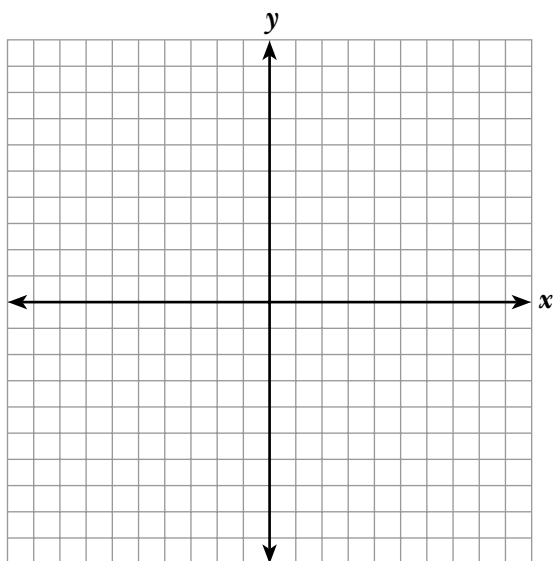
9. $3y \leq 12 + 6x$



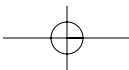
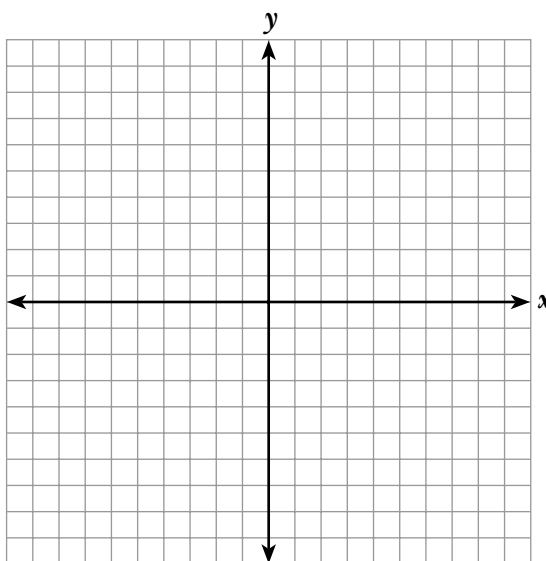
10. $2x > y + 2$



11. $4x \geq y + 3$



12. $x - 4 \leq 2y$



Journal

1. Describe the meanings of the signs $>$, $<$, \geq , and \leq .
2. How is a closed circle on a number line graph related to a solid line on a coordinate plane graph?
3. Explain in your own words how to determine where to shade when graphing an inequality in a coordinate plane.
4. Compare and contrast the processes used to graph a linear equation and a linear inequality in a coordinate plane.
5. Explain step by step how to graph the inequality $y < 5x$.

Cumulative Review

Solve for y .

1. $y + 5 \leq 3$

2. $6y > 2$

3. $4 < -2y$

4. $y - 6 \geq 13$

5. $x + y > 3$

6. $2y < 4x - 8$

7. $y + 13 \leq 4x - 10$

8. $-3y > x - 6$

9. $4y - 3x < 2y + 3x + 1$

10. $3y + 8x - 2 \geq 4x - 6 + y$

