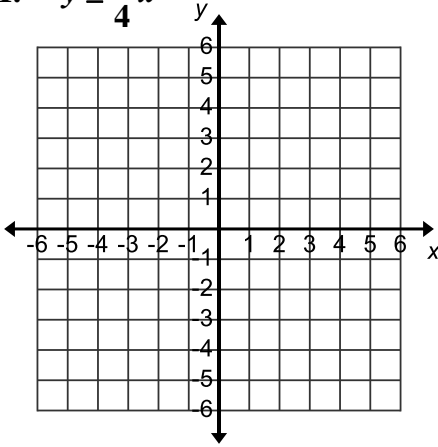
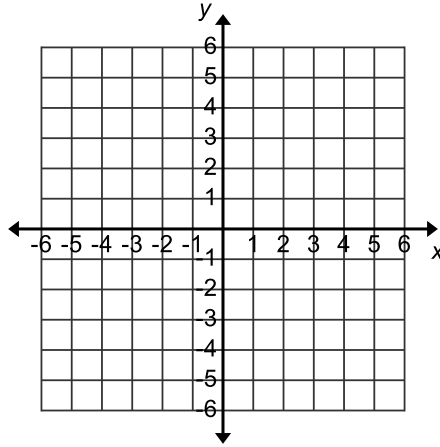


Sketch a graph of the linear inequalities.

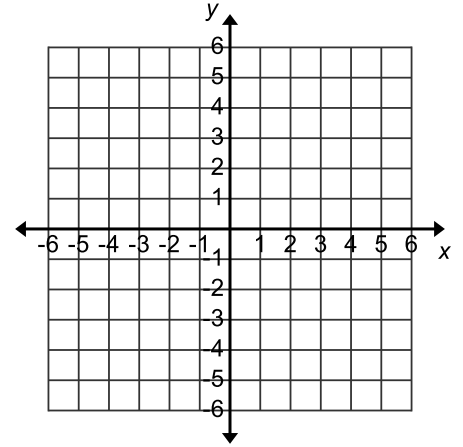
1. $y \geq \frac{3}{4}x$



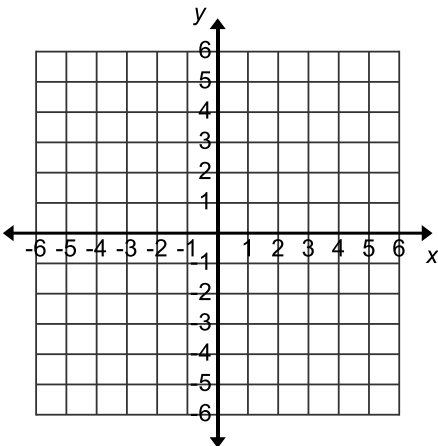
2. $y > -3$



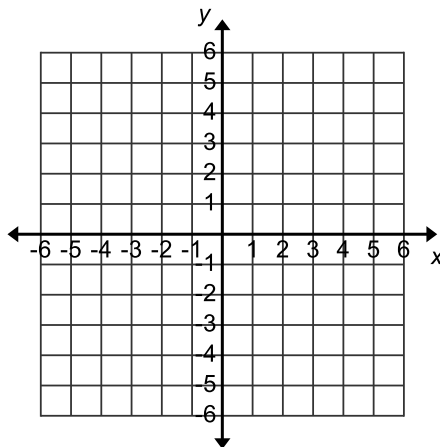
3. $y < 2x - 5$



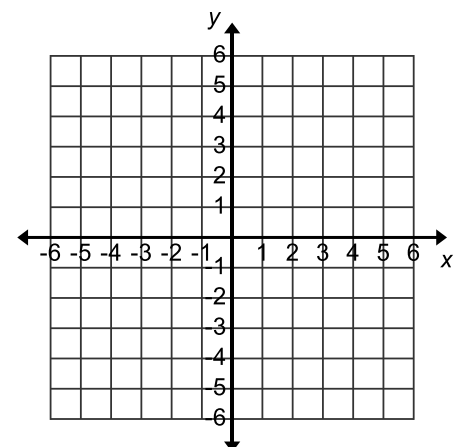
4. $3x + y \leq 6$



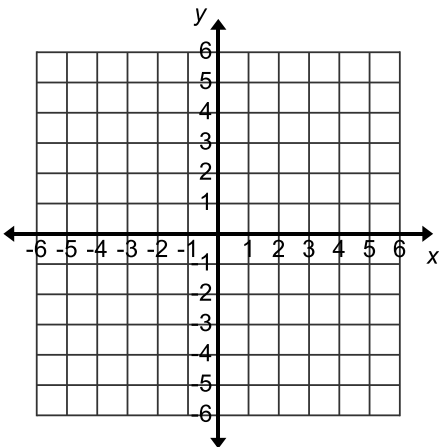
5. $x \leq -2$



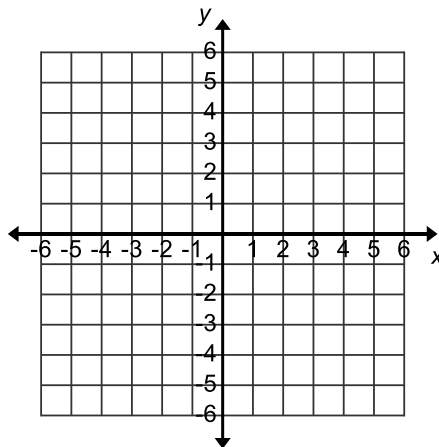
6. $y < 3$



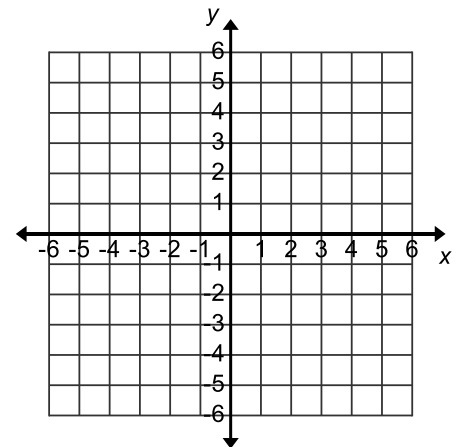
7. $x \leq -2$



8. $-2x + 3y > -9$



9. $-6x + 2y < -4$

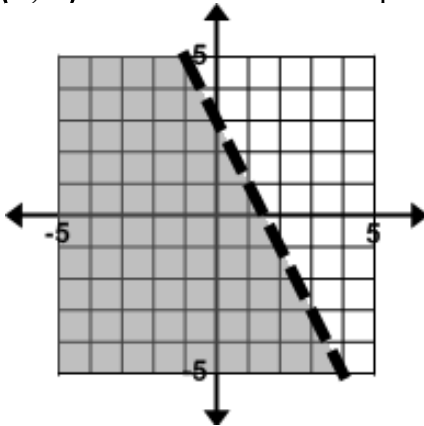


True or False?

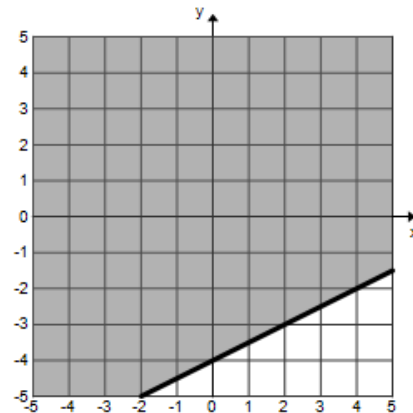
34. 2 is a solution to the inequality $3 \geq x$.

35. 18 is a solution to the inequality $x + 3 \leq 21$

36. $(0, 3)$ is a solution to the inequality



37. $(2, -3)$ is a solution to the inequality



38. $(3, 8)$ is a solution to $\frac{1}{3}x + 10 < y$

39. $(1, -2)$ is a solution to $4x - 2y > 8$.

40. Josh is going on a trip to visit some friends from summer camp. He will use \$40 for food and entertainment. He will also need money to cover the cost of gas. The price of gas at the time of his trip is \$3.25 per gallon. Josh only has \$170 for the trip. Fill in the blank below with the appropriate inequality ($<$, $>$, \leq , \geq) symbol to represent this situation.

$$3.25x + 40 \underline{\hspace{1cm}} 170$$

41. You are buying pizza for a party. Pepperoni pizza is \$10 per pizza, and meat lovers pizza is \$15 per pizza. You want to really impress people and want to spend more than \$200. Fill in the blank below with the appropriate inequality ($<$, $>$, \leq , \geq) symbol to represent this situation.

$$10x + 15y \underline{\hspace{1cm}} 200$$

42. You are going to a Super Bowl party and was asked to bring soda and chips. The soda costs \$3.50 per bottle and the chips are \$2.50 a bag. If you only have \$30 to spend, fill in the blank below with the appropriate inequality ($<$, $>$, \leq , \geq) symbol to represent this situation.

$$3.50x + 2.50y \underline{\hspace{1cm}} 30$$

43. Jose is going to an arcade that costs \$5 to enter and \$2 per game. If Jose only has a \$50 bill, Fill in the blank below with the appropriate inequality ($<$, $>$, \leq , \geq) symbol to represent this situation.

$$2x + 5 \underline{\hspace{1cm}} 50$$

44. Sam is saving up for a car. His parents give him \$300 and he is going save \$60 a week. Write an inequality if he wants to have at least \$4000 when he goes to buy the car.

45. You are making scrapbooks for your friends. Your mom already made 3 that you are going to use and you can make 2 a day. Write an inequality if you need more than 15 scrapbooks.

46. You work at a movie theater where child tickets are \$4 each and adult tickets are \$9. Write an inequality if your manager tells you that you need to sell at least \$600 worth of tickets one night.