

1. Is the solution to the graph of $x + y > 5$ the region above or below the line $x + y = 5$? Explain your answer.
2. Is the solution to the graph of $3x - 2y \leq 12$ the region above or below the line $3x - 2y = 12$? Explain your answer.

Solve for y in terms of x (y should be on the left side), then graph each linear inequality.

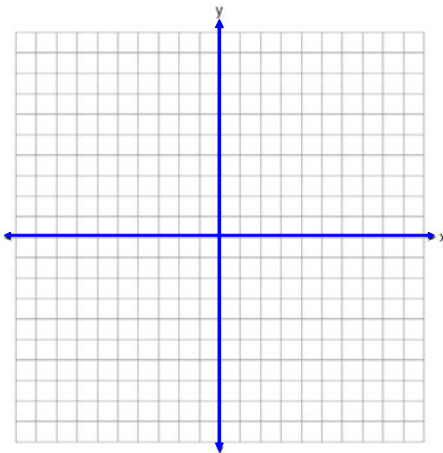
3. $y - 2x > 0$

4. $5x > 2y$

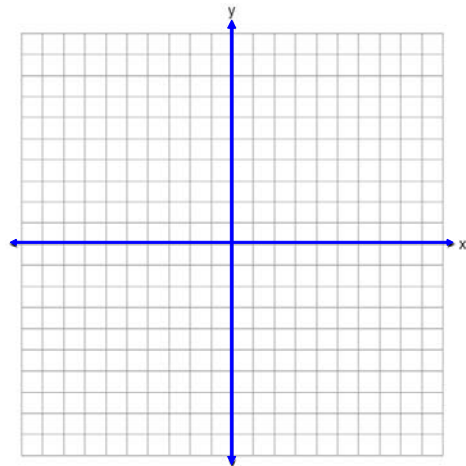
5. $y - x \geq 3$

6. $3x - y \geq 4$

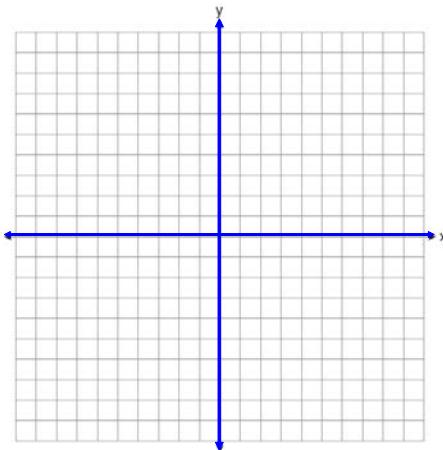
3.



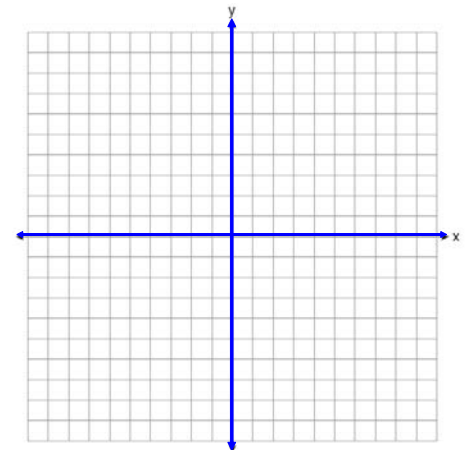
4.



5.



6.



R1. Which value of x is in the solution set of the inequality, $-4x + 2 > 10$?

- (A) -2 (B) 3 (C) 2 (D) -4

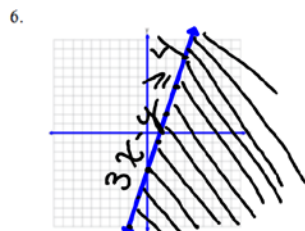
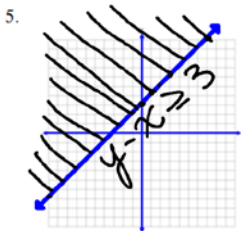
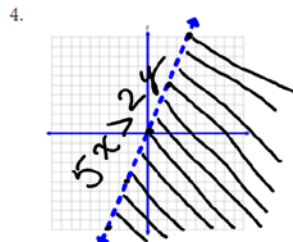
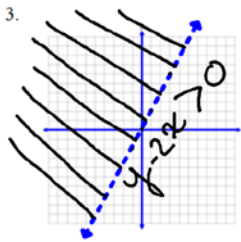
R2. Find the slope of a line that passes through the points $A(0, 2)$ and $B(5, 0)$.

R3. Find the value of x that satisfies the equation

$$\frac{7}{3}\left(x + \frac{9}{28}\right) = 20?$$

R4. Solve for k : $2x - 5y = -9$; $(3, k)$

1. above because it was greater than
2. above because it was greater than after dividing by the negative
3. $y > 2x$
4. $y < \frac{5}{2}x$
5. $y \geq x + 3$
6. $y \leq 3x - 4$



R1. D

R2. $-\frac{2}{5}$

R3. $x = 8.25$

R4. $k = 3$