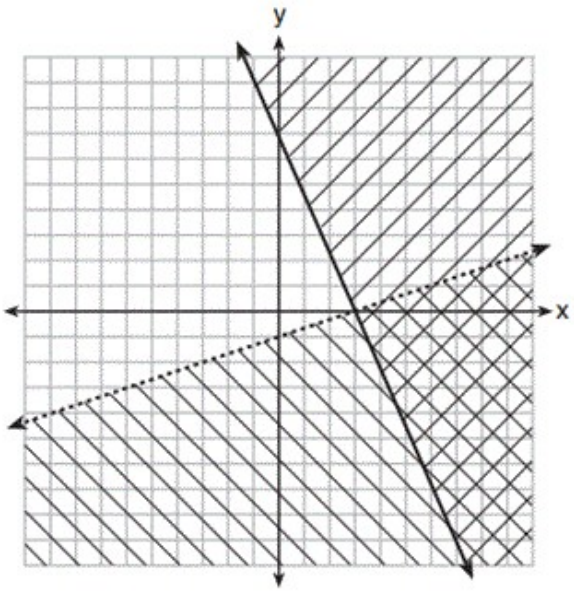
Name: _____

1. The value of the x-intercept for the graph $4x + 3y = 12$ is
   1. 3
   2. -4
   3. $-\frac{4}{3}$
   4. $\frac{4}{3}$

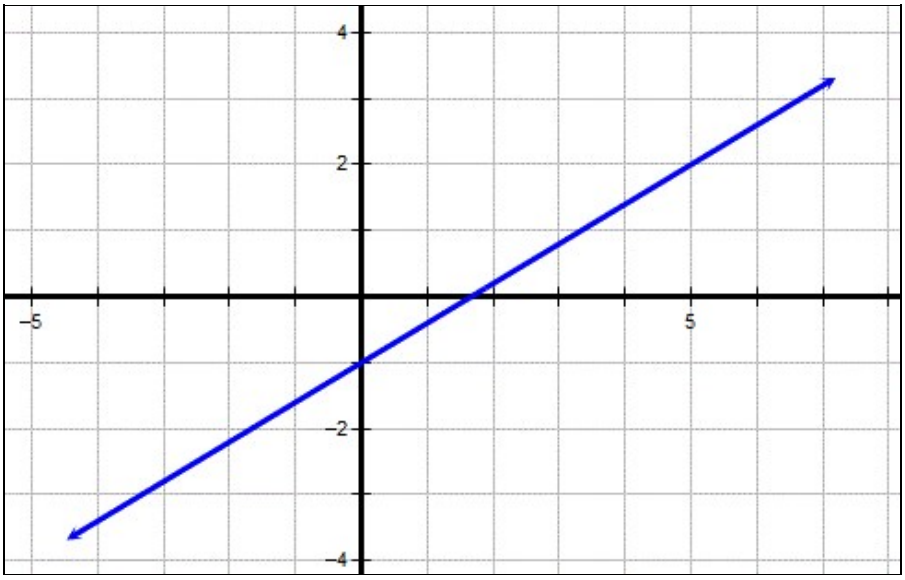
2. What is one point that lies in the solution set of the system of inequalities graphed below?



   1. $(-7, 2)$
   2. $(2, 2)$
   3. $(8, -4)$
   4. $(8, 4)$

3. The cost of a taxi ride, C (in dollars), after a certain distance m (measured in miles) is modeled by the function $C(m) = 1.25m + 5$. In terms of cost and distance, which statement describes the meaning of the slope?
   1. The cost increases by \$1.25 as the distance increases by 10 miles.
   2. The cost increases by \$12.50 as the distance increases by 10 miles.
   3. The cost increases by \$1.25 as the distance decreases by 10 miles.
   4. The cost decreases by \$12.50 as the distance increases by 10 miles.

4. The students at Myers Park HS were given information about two linear functions. Function f has an x-intercept of 8 and a y-intercept of −6. Function g is shown in the graph below.

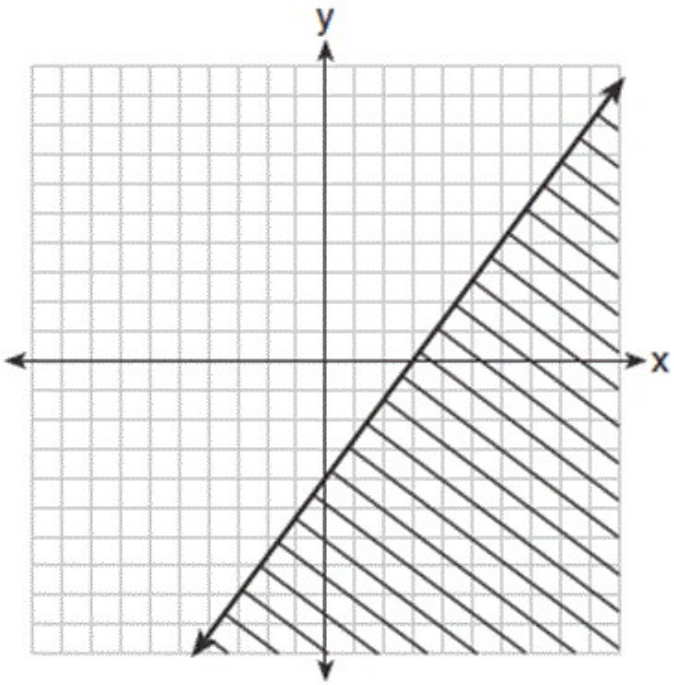


What is the slope of the function with the greater slope?

1. $\frac{3}{5}$
2. $\frac{3}{4}$
3. $\frac{4}{3}$
4. $\frac{5}{3}$

5. The graph of the equation $y = -2$ is a line
   1. parallel to the x-axis
   2. parallel to the y-axis
   3. passing through the origin
   4. passing through the point (-2,0)

6. Which inequality is shown in the graph below?



1. $y \leq \frac{4}{3}x + 3$
2. $y \geq \frac{4}{3}x + 3$
3. $y \leq \frac{4}{3}x - 4$
4. $y \geq \frac{4}{3}x - 4$

7. What is an equation of the line that passes through the points (2, 1) and (6, −5)?

1. $y = -\frac{3}{2}x - 2$
2. $y = -\frac{3}{2}x + 4$
3. $y = -\frac{2}{3}x - 1$
4. $y = -\frac{2}{3}x + \frac{7}{3}$

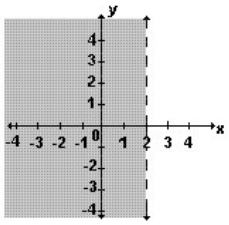
8. What is the solution of the inequality $-6x - 17 \geq 8x + 25$?

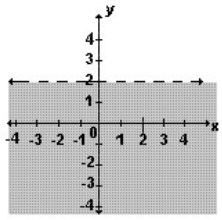
1. $x \geq 3$
2. $x \leq 3$
3. $x \geq -3$
4. $x \leq -3$

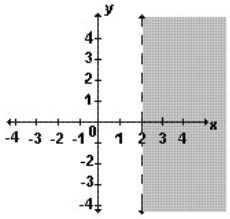
9. What is the solution of $3(2m - 1) \leq 4m + 7$?

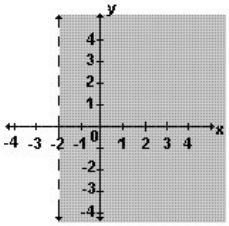
1. $m \leq 5$
2. $m \geq 5$
3. $m \leq 4$
4. $m \geq 4$

10. Which graph represents the inequality $x < 2$?

1. 

2. 

3. 

4. 

Answer Key for CM Q1E practice 2

Question 1: 1
Question 2: 3
Question 3: 2
Question 4: 2
Question 5: 1
Question 6: 3
Question 7: 2
Question 8: 4
Question 9: 1
Question 10: 1