1. When $3x + 2 \le 5(x - 4)$ is solved for x, the solution

is

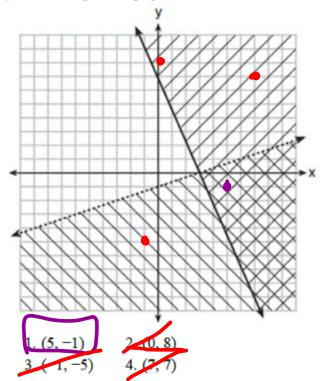
2. The value of the x-intercept for the graph 2x - 5y =

30 is

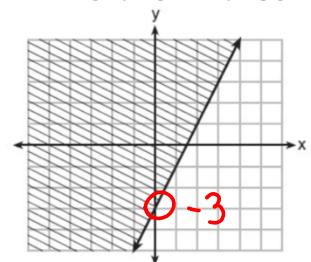
4.
$$\frac{2}{5}$$

$$2x-5(0)=30$$

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



4. Which inequality is represented by the graph below?



1.
$$y \le 2x - 3$$

2. $y \ge 2x - 3$
3. $y \le -3x + 2$
4. $y \ge -3x + 2$

5. Which equation represents the line that passes through the points (-1,-2) and (3,10)?

1.
$$y = 3x + 1$$

2.
$$v = 3x - 1$$

3.
$$y = 4x + 2$$

4.
$$y = 4x - 2$$

$$m = \frac{10 - (-2)}{3 - (-1)} = \frac{12}{4}$$
= 3

$$4 = 3 \times 4b$$
 $6 = 3(3) + b$
 $6 = 9 + b$
 $6 = 4$

6. The cost of a pack of chewing gum in a vending machine is \$0.75. The cost of a bottle of juice in the same machine is \$1.25. Julia has \$22.00 to spend on chewing gum and bottles of juice for her team and she must buy seven packs of chewing gum. If b epresents the number of bottles of juice, which inequality represents the maximum number of bottles she can buy?

1.
$$0.75b + 1.25(7) \ge 22$$

2.
$$0.75b + 1.25(7) \le 22$$

3.
$$0.75(7) + 1.25b \ge 22$$

4.
$$0.75(7) + 1.25b \le 22$$

7. What is the slope of a line that passes through the points (-2,-7) and (-6,-2)?

1.
$$-\frac{4}{5}$$

$$2.-\frac{5}{4}$$

4.
$$\frac{9}{8}$$

$$m = \frac{-2 - (-1)}{-6 - (-2)} = \frac{5}{-4}$$

8. What is the solution of the system of equations below?

$$2x + 3y = 7$$

$$x + y = 3$$
1. (1,2)
3. (4,-1)
-4. (4,1)
$$x + y = 3$$
-2x + 3y = 7

-2x - 2y = -6

$$x + y = 3$$
-2x - 2y = -6

$$x + y = 3$$
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$$x + y = 3$$
-2x - 2y = -6

$$x + y = 3$$
-2x - 2y = -6

9. Given the table below that lists points on a line, what is the *y*-intercept of the line?

x	-6	-3	0	3	6
y	6	4	2	0	-2
1 0 0 0		X			

1. 0

3. 3 4. 4

10. What is the value of the y-coordinate of the solution to the system of equations x + 2y = 9 and x - y = 3?

$$x + 2y = 9$$
 $-x + y = -3$
 $3y = 6$
 $y = 2$