For 1-2: Which ordered pair is not a solution for the equation given?

1. 6x + y = 8

plug in each point for X34, check for true

X ul	(3,	-1	0)	9.
QC	3) - 18 -			
		١		

$$(-3, 26)$$

 $(6(-3)+26=6$
 $(-3)+26=6$

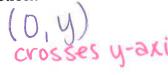
B. (2, 4)

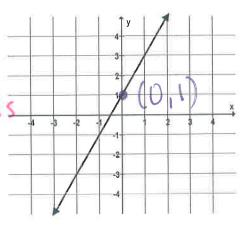
C. (4, -1)

b. (-5, 4)

3. Which ordered pair best represents the y-intercept of this function?

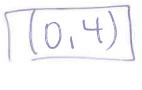
A. (1,0) (B. (0, 1) C. (0, -0.5)**P**: (-0.5, 0)





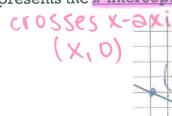
4. What is the x-intercept of the equation cover up y! y = -3x - 12?

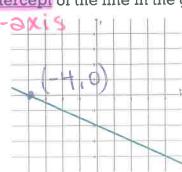
5. What is the y-intercept of the equation 4x + 2y = 8? cover UPX!

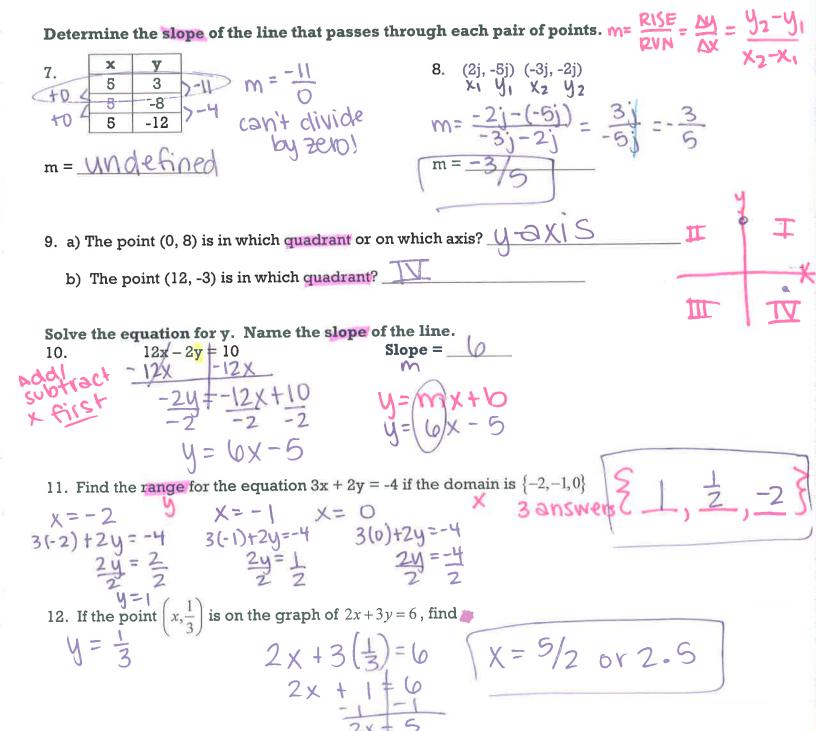


6. Which ordered pair best represents the x-intercept of the line in the graph?

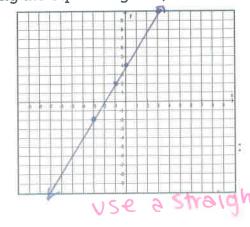
(0, -4)B (0, 4) C.(-4,0)D. (4, 0)







13. Using the equation given, fill in the table and draw the graph.



3y-	-12 = 6	X
SOLY	e fo	ry!
		J

X	Y
-3	-2
-1	2
0	4
3	10
5	14

$$3y - 12 = 6x + 12$$

 $3y = 6x + 12$
 $3y = 6x + 12$
 $3y = 2x + 4$
Plug into $y = 2x + 4$

Determine the value of r so the line that passes through each pair of points has the given slope.

14.
$$(2, r)$$
 and $(1, -3)$

$$m=-3$$

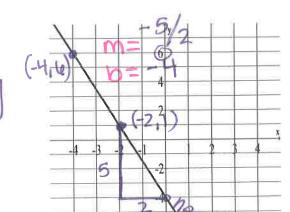
$$-3-y = -3(1-2)$$

$$-3-y = -3(-1)$$

$$-3 - r = 3$$

15. Use the graph to the right to answer the following questions:

a. Write the linear equation
$$V = W \times V$$



b. Find
$$f(-2) = 1$$

 $X = -7$

c. Find
$$f(x) = 6$$

$$y = 0$$

16. If $f(x) = \frac{2}{3}x^2 + 8x$, what is the value of f(6)?

$$f(b) = \frac{2}{3}(b)^2 + 8(b)$$
calculator!



For 19-20: Determine the independent and dependent variable in each situation.

19. The number of gum balls, g, that can be packaged in a box with a volume of V cubic

units is given by g = 40V + 15Acpendent

Number of Gum Balls: dependent

Volume of the Box: independent

20. Jake works as a sales representative. He earns \$1,275 per month plus an 8% commission on his total sales.

Total Income: dependent

Total Sales: independent The conchange!

- Describe the change of the graph of y = x if the equation changes to y=3x+5.
- A horizontal line has _ slope. 22.
- A vertical line has Undefineslope. ·steeper 23. · up 5

42=3X+5

3

24. The annual production of a farm crop is modeled by $y_1 = \frac{1}{2}x + 4000$. If the model is changed to $y_2 = x + 4000$, the production will:



decrease at the same rate increase at double the original rate increase at ½ the original rate decrease at double the original rate

$$m_1 = \frac{1}{2}$$
 $m_2 = 1$
Still increasing

25. Leslie and her cousin went to a restaurant for dinner. Leslie's dinner cost \$5 more than her cousin's. If their combined bill was under \$25, which inequality best describes the cost of their dinners?

A
$$x - (x + 5) < 25$$

B $x + 5 < 25x$
C $x + (x + 25) < 5$
D $x + (x + 5) < 25$

26. The late fee for overdue books at a library is \$0.25 per day per book, with a maximum late fee of \$5.00 per book. Which graph models the total late fee for 3 books that were checked out on the same day and are overdue?









