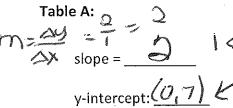
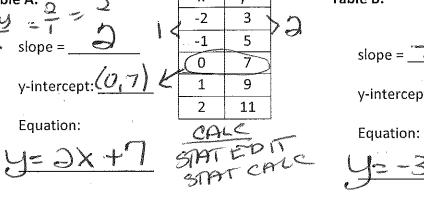
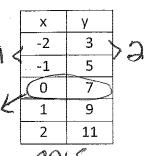
Name:	Key
Unit 4 Review.	1

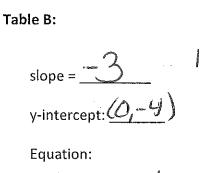
Period:	

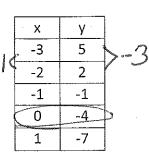
1. Find the slope and y-intercept and write an equation of the line in slope-intercept form for each of the following tables:



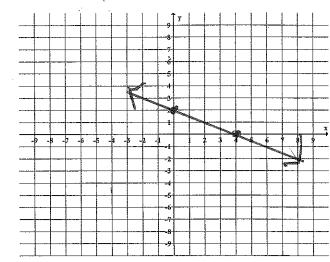








Graph the linear function	2x+4y=8 and w	rite the x-intercents	and v-interce	nts as ordered pairs.

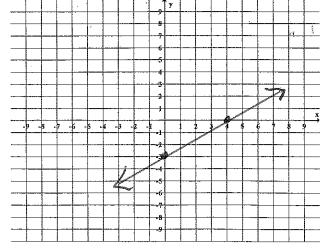


x-intercept:
$$(4,0)$$
 when $y=0$

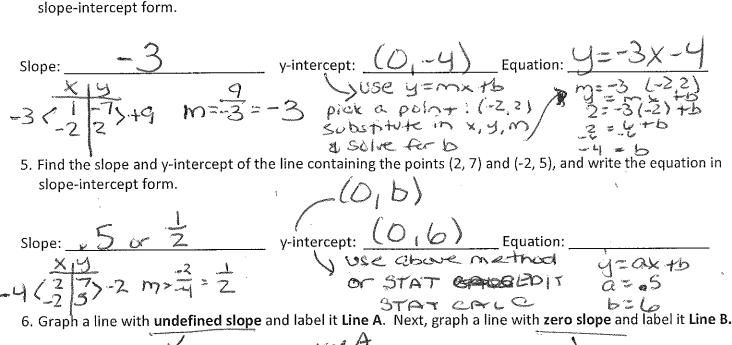
y-intercept: $(2,0)$ $x=4$

when $x=0$
 $y=0$
 $y=0$

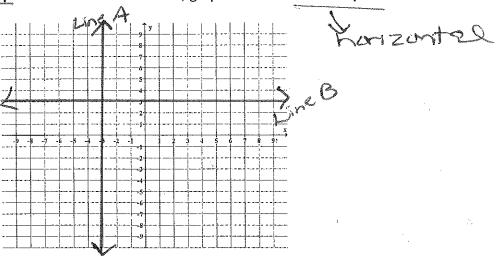
3. Graph the linear function 3x - 4y = 12 and write the x-intercepts and y-intercepts as ordered pairs.

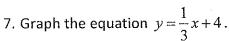


y-intercept:
$$(4,0)$$
 when $y=0$ $3x=12$ $y=12$ $y=12$ $y=-3$



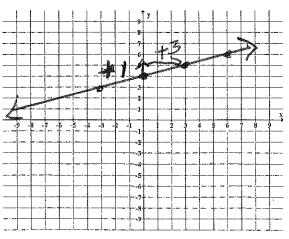
4. Find the slope and y-intercept of the line containing the points (1, -7) and (-2, 2), and write the equation in





-Start at b y-intercept

- Use slope 1 1 Tise 1 1



enery =

then 2 thoble

find 3 point

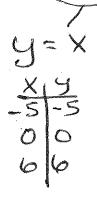
graph

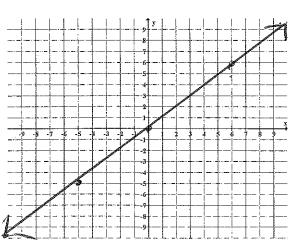
X 1 y

-3 3

0 | 4

9. Graph the parent function on the coordinate plane below.





10. Sally graphed the equation y = 2x - 5. Tim translated Sally's equation 8 units up. What is slope, y-intercept, and equation of the new line?

Slope:
$$y$$
-intercept: $(0,3)$ Equation: $y = 2x + 3$

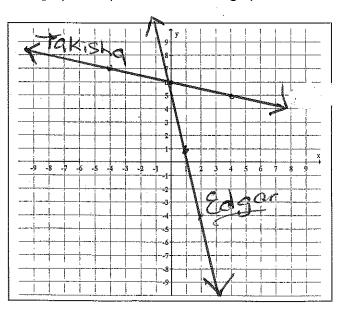
- 11. Takisha graphed the equation $y = -\frac{1}{4}x + 6$. Edgar decided to change the slope to -5 and graph the new line. Answer the following questions about Edgar's new graph compared to Takisha's graph.
 - a. Is the line steeper or flatter?

 Steeper -5 > 4

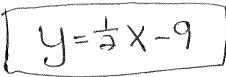
 megnitude
 - b. Did the direction of the slope change?
 - No, both regative slopes.

 c. Did the y-intercept of the new graph change?

No, only the slope So just the steepness of the graph



13. Write the equation of a line that is parallel and three units below the graph of $y = \frac{1}{2}x - 6$.



- 14. Clean-It-Out Plumbing Company charges \$25 per hour plus a service call fee when called to repair a plumbing problem. The company uses the equation C = 25h + 50 to calculate the charges, C, for the number of hours, h, on the job.
 - a. What is the rate of change? \$25 per hour
 - b. What is the service call fee? \$50
 - c. What would the charges be for 8 hours?

15. Sam received an iTunes gift card. Each time he downloads a song to his iPod, \$1.50 is deducted from his card. When he had downloaded 12 songs he had a balance of \$12. The relationship is represented in the table below.

Number of

songs

downloaded

0

8

12

Balance

on card

24

18

12

a. Write an equation to represent this situation.

$$y = 30 - 1.50 \times$$

 $y = -1.50 \times +30$

b. Write the y-intercept as an ordered pair. What does it represent in the situation?

c. What is the rate of change? What does it

d. How much money will Sam have left in his account when he downloads 18 songs?

$$F y = 30 - 1.50 \times S$$

$$S y = 30 - 1.50 (18)$$

$$S y = 3 \sqrt{53}$$