

**Key**

**UNIT 5 REVIEW**

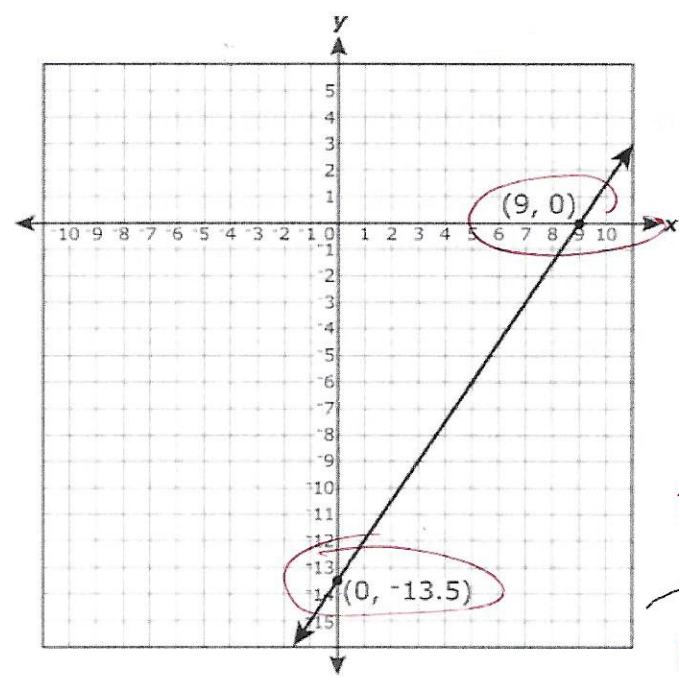
1) The Mr. Herrera's family and the Mr. Sinclair's family both meet up to go to Disney Land. The Herrera family pays \$882.00 for passes for 10 adults and 18 children. The Sinclair family pays \$951.00 for passes for 11 adults and 19 children. Write two equations that can be used to solve for the price of the adult and child admissions:

A = adults price  
 C = children price  
 Equation for Smith Family →  
 Equation for Jones Family →

① Total (Herrera) → 882  
 Total (Sinclair) → 951  
 ② EACH adult price → A  
 EACH child price → C  
 ③ Herrera's Family → 882 = 10A + 18C  
 Sinclair's Family → ?

2)

Which of the following points lies on the given line?



- ~~A. (10, 2)~~
- B. (-1, -16)
- C. (17, 12)
- D.  $(-8, -25\frac{1}{4})$

Which one of these gives me this slope??

\* Find slope  
 $(9, 0)$  AND  $(0, -13.5)$   

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{(-13.5) - (0)}{(0) - (9)} = \frac{-13.5}{-9} = 1.5$$

$(9, 0)$  AND  $(10, 2)$   

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{(2) - (0)}{(10) - (9)} = \frac{2}{1} = 2$$
  
 NOT THE ANSWER

3)

If the points  $(2, m)$  and  $(n, 3)$  are solutions of the equation  $2.5x - 3y = 24$ , what are the approximate values of  $m$  and  $n$ ?

- A. -2.4 and -2.5
  - B. -1.7 and -3.6
  - C. 6.3 and 6
  - D. 7.2 and 5.5
- $(2, m)$  and  $(n, 3)$   
 if  $m = -2.4$  and  $n = -2.5$   
 what is the slope?  

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{(3) - (-2.4)}{(-2.5) - (2)} = ?$$

~~$2.5x - 3y = 24$~~   

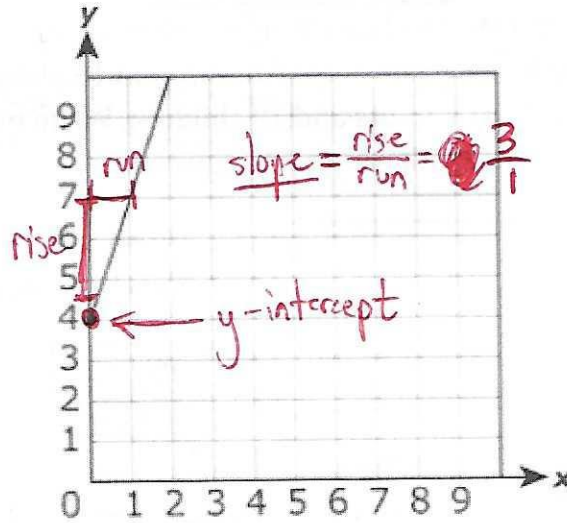
$$-3y = 24 - 2.5x$$
  

$$y = \frac{24}{-3} + \frac{-2.5x}{-3}$$
  

$$y = -8 + 0.83x$$
  
 ① \* Solve for y  
 ② Find slope  
 what's my slope

4)

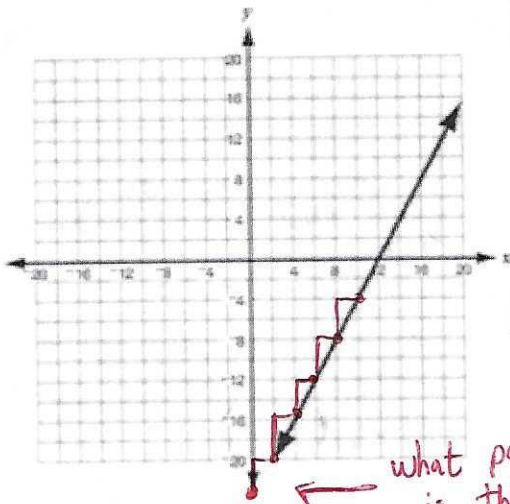
\* find y-intercept first  
\* find slope  
 $\frac{\text{rise}}{\text{run}}$



$y = mx + b$   
 $m \rightarrow$  slope  
 $b \rightarrow$  y-intercept

Write an equation that represents the graph:  $y = 3x + 4$

5) What is the y-intercept of the function shown on the coordinate plane below?



**\*\*HINT: Find the slope of the line first!**

$\frac{\text{rise}}{\text{run}} = \text{slope} = \frac{2}{1}$

6) Dwayne and Dani spend a total of \$44 at the Allapattah town fair. There is an entrance fee of  $x$  dollars per person, and each ride costs \$3.50. If they went on the same number of rides, which equation correctly represents this relationship, where  $n$  is the number of rides?

2 people!

- A.  $x + 7n = 44$
- B.  $x + 3.50n = 44$
- C.  $2x + 7n = 44$
- D.  $2x + 3.50n = 44$

$44 = 2x + 7n$

Two people  
↓  
2 times  
\$3.50  
↓  
\$7.00