1) 
$$xm = n - p$$
, for  $x = \frac{n - p}{m}$ 

2) 
$$\frac{x}{k} = \frac{w}{v}$$
, for  $x$ 

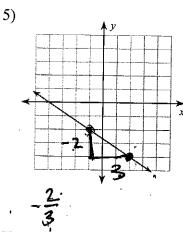
X= WK

Find the slope of the line through each pair of points.

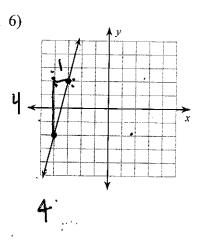
3) 
$$(-12, 16), (7, 11)$$
  $M = 11-16$   
 $M = -\frac{5}{19}$   $7+12$ 

4) 
$$(16, -3), (17, 14)$$
  $M = \frac{14 + 3}{17 - 16}$ 

Find the slope of each line.

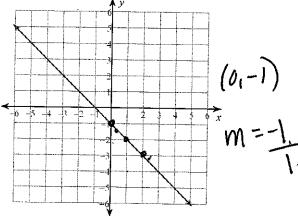


ME RUN X 4.

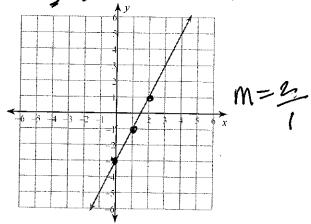


Sketch the graph of each line.

7) 
$$y = -x - 1$$



y = Mx + b y = 2x - 3



Solve each system by elimination.

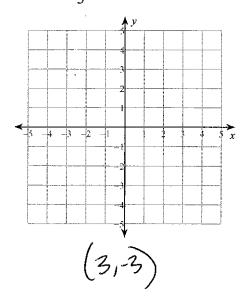
9) 
$$-3x - 7y = -4$$
  
 $4x + 7y = 3$   
(-1, 1)  
 $4(-1) + 7y = 3$ 

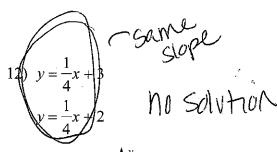
$$10)(7x + 3y = -16) - 5$$

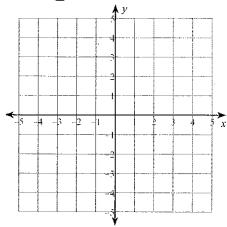
$$(5x + 5y = -20) 3$$

Solve each system by graphing.

11) 
$$y = -\frac{7}{3}x + 4$$
  
 $y = -\frac{1}{3}x - 2$ 







many students can a bus carry?

A:  $4 \times 4 \times 5 \times 4 = 204$ A plane traveled 480 miles to Lisbon and back. The trip back took in still air and the speed of the wind. The trip back took is a superstant of varies and 4 buses with 181

Y: Vans and 5 buses with 284 students. Every van had y: back was into the wind. The trip back took is not in still air and the speed of the wind. 13) The senior classes at High School A and High School B planned separate trips to Yallowstone

14) A plane traveled 480 miles to Lisbon and back. The trip there was with the wind. It took 6

15) The school that Dan goes to is selling tickets to a spring musical. On the first day of ticket sales  $\chi$ : Son 0the school sold 4 senior citizen tickets and 7 child tickets for a total of \$101. The school took in HIX

senior citizen ticket and the price of a child ticket.  $-2(4x+7y=101) \rightarrow -0x-14y=-202 \qquad -3x=-39$   $5x+14y=163 \rightarrow 5x+14y=163 \qquad 1x=13; y=7$ 

16) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 11 vans and 10 buses with 373 students. High School B rented and filled 14 vans and 2 buses with 228 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each

X Vairs

$$11x + 10xy = 373$$
  
 $-70x - 10y = -1140$   
 $-2^{-54}x = -767$ 

