Name _____ Date_____

Pd_____

Review for Linear Functions Test

For 1-3: Find the **slope**

1. $(-2,4)$ and $(2,5)$

2. $(2,5)$ and $(-3,0)$

3. $(7,5)$ and $(7,10)$

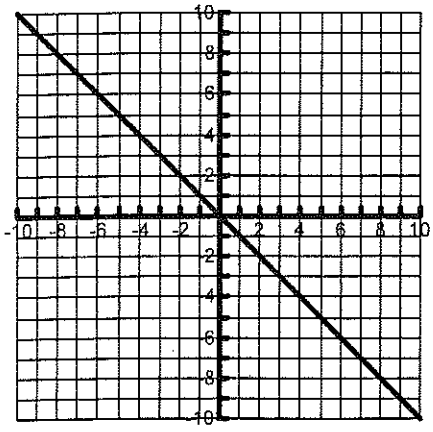
_____ _____ _____

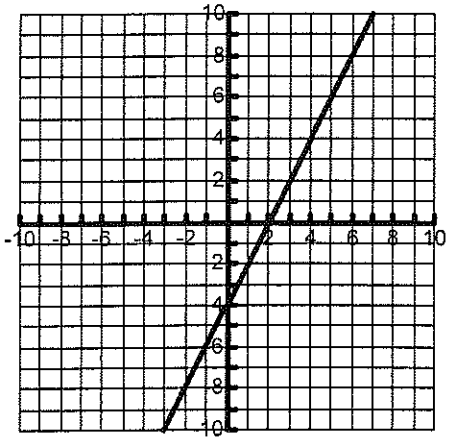
For 4-6: Find the slope of the following:

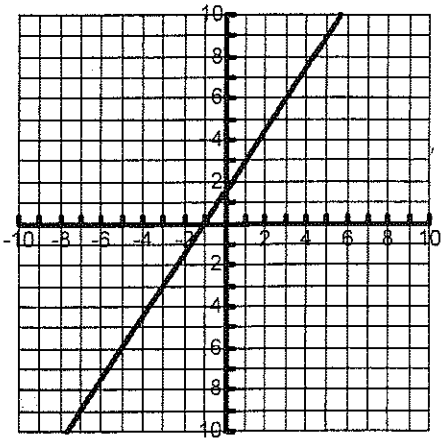
4. $m=$_____

5. $m=$_____

6. $m=$_____







For 7-8: Complete the table

You and your friends plan to attend the annual county fair this weekend. The entry fee for the carnival is $5.00 and the cost per ticket is $0.50.

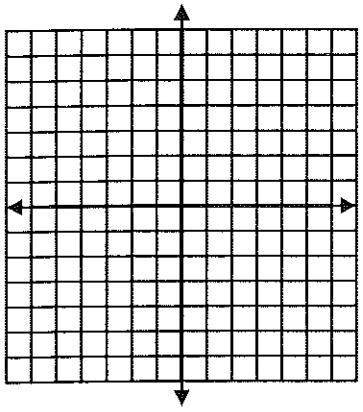
Number of Tickets	Cost
8	$9.00
12	$11.00
	$12.50
23	

7. Write a linear equation that represents the relationship between cost and the number of tickets.

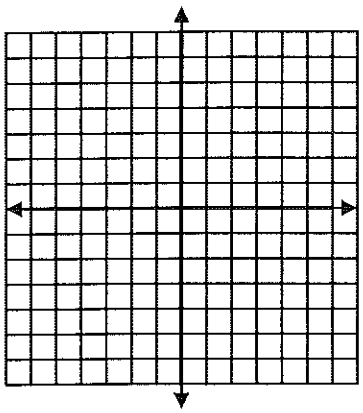
8. What does the y-intercept represent in the problem? Use the numbers and explain in COMPLETE SENTENCES for this specific situtaiton.

For 9-11: Graph using the y-intercept and the slope.

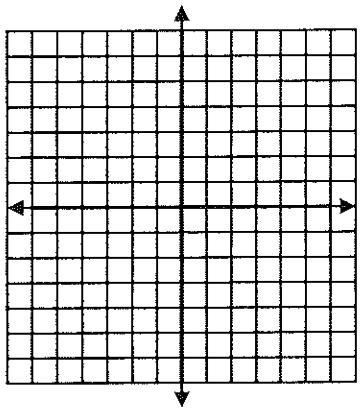
9. y-intercept= –2 slope: 3



10. y-intercept= 5 slope: $-\frac{1}{4}$

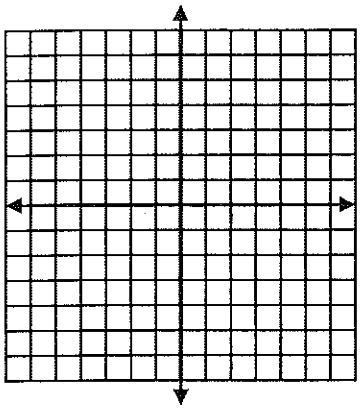


11. Pt (2,-3) Slope Undefined

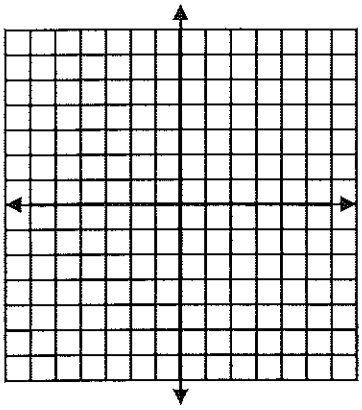


For 12-14: Graph the equations using the x and y intercepts.

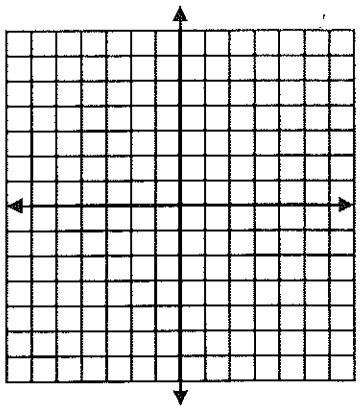
12. $-8x+6y=24$



13. $x-y=3$

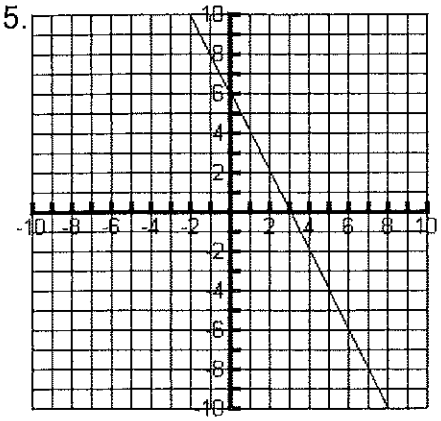


14. $y=-3x+6$

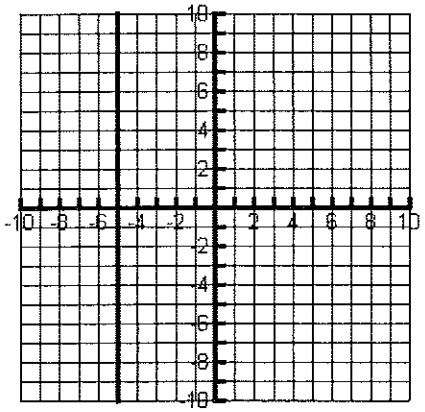


For 15-17: Identify the x and y intercepts.

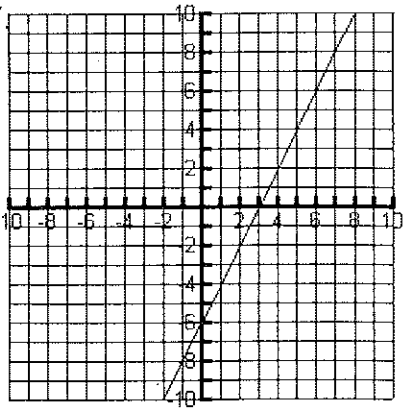
15.



16.



17.



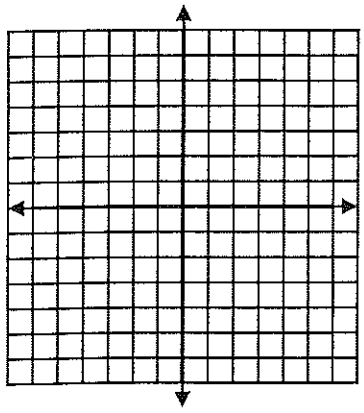
_____

_____

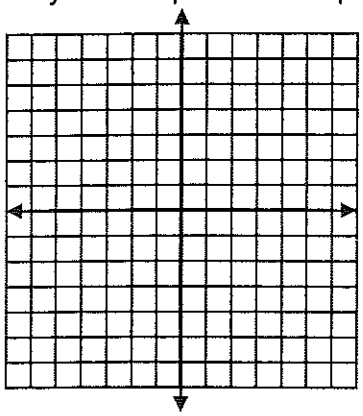
_____

For 18-20: Graph using the y-intercept and the slope.

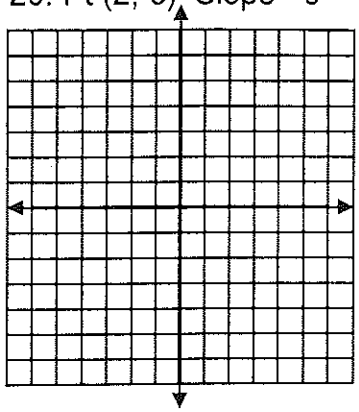
18. y-intercept= 1 slope: $-\frac{1}{2}$



19. y-intercept= –3 slope: 4



20. Pt (2,-3), Slope =0



Write the equation that passing through a point and having a given slope.

21. $(5,\ 2)$ $slope = -4$ 21. _____

22. $(-1,\ 2)$ $slope = \frac{2}{5}$ 22. _____

23. Write an equation that describes the line that passes through the points on the table below.

x	3	6	9	12	15
y	2	6	10	14	18

23. _____

24. Write an equation that describes the line that passes through the points on the table below.

x	6	8	10	12	14
y	8	11	14	17	20

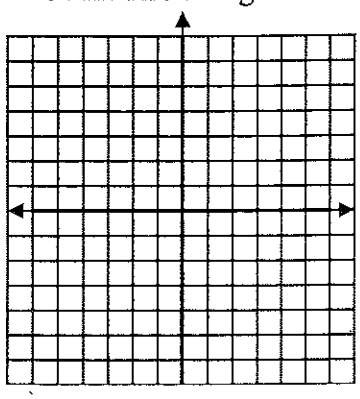
24. _____

25. What is the **slope, y-intercept,** and **equation in slope-intercept form** of the line that goes through the points (-1,1) and (3,5)? **Graph** the line.

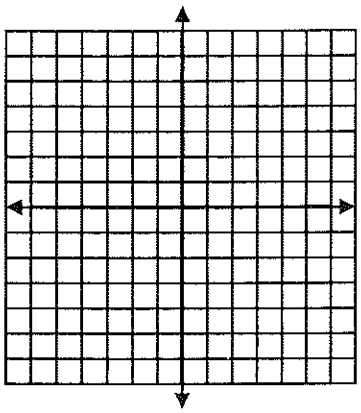
m=_____

b=_____

y=_____



26. What is the **slope**, **y-intercept,** and **equation in slope-intercept form** the of the line that goes through the points (1,1) and (2,-2)? **Graph** the line.



m=_____

b=_____

y=_____

Write in Slope – Intercept Form then give the slope and y-int.

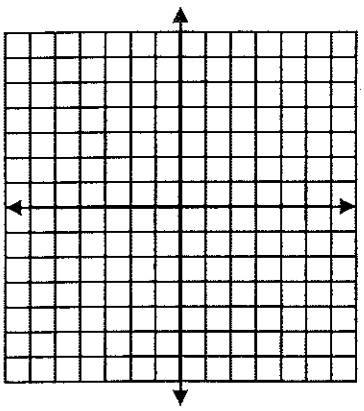
27. $3x+4y=12$ 27. _____

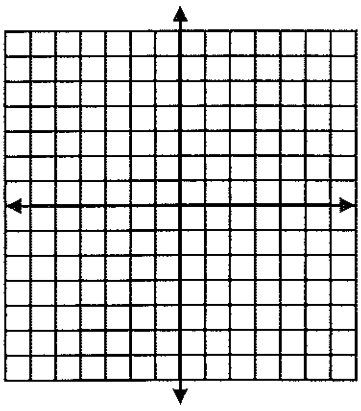
28. $7x-4y=-28$ 28. _____

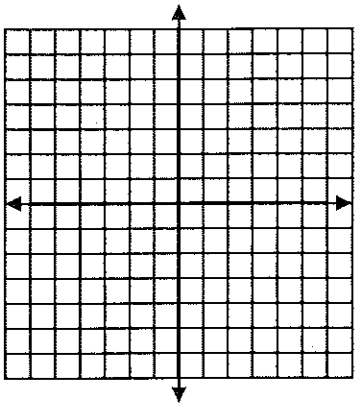
29. $4x+5y=2$ 29. _____

Graph.

30. $y=-4+\frac{1}{3}x$ 31. $4x-2y=-12$ 32. $3x+7y=-21$





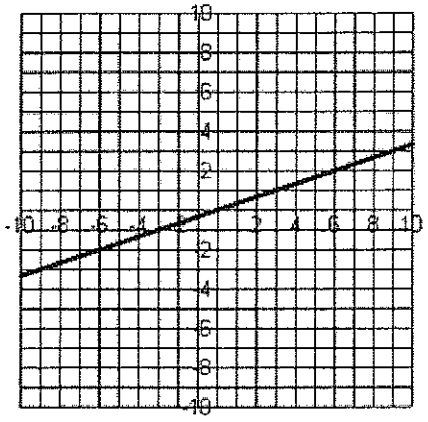


33. Juan was riding his bicycle at a rate of 8 miles per hour. When he started, he was 2 miles away from his house.

Slope=_____ y-intercept=_____ Equation_____

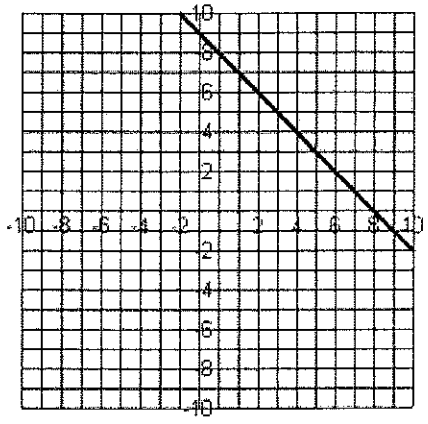
Write the linear equation from the graphs below in *slope-intercept form.*

34.



m=_____ b=_____ y=_____

35.



m=_____ b=_____ y=_____