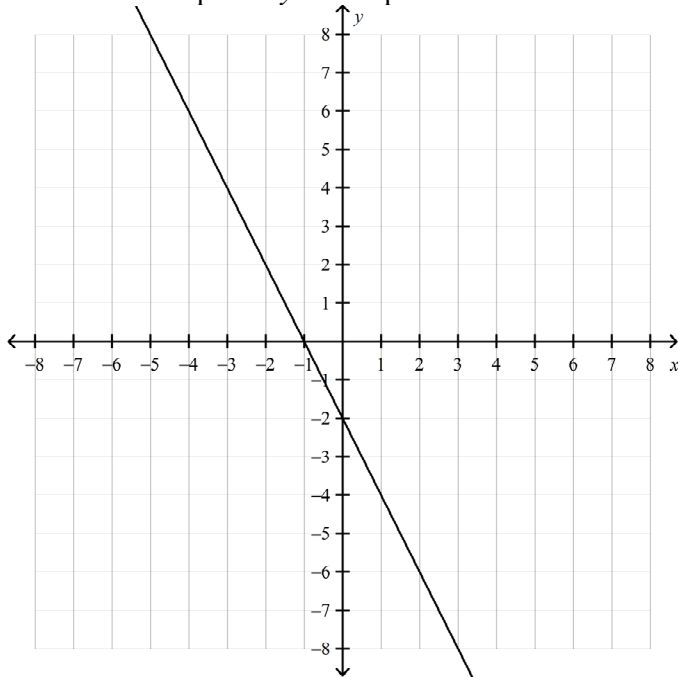


FOMP 10 Chapter 7 Review Pack v1**Short Answer****Level 1-2 Questions**

1. What letter represents the slope in the equation of a line, $y = mx + b$?
2. In the equation of a line, $y = mx + b$, the y -intercept is represented by the letter
3. The y -intercept of the line $y = -7x - 5$ is
4. What is the slope of the line $y = -\frac{2}{3}x$?
5. What are the slope and y -intercept of this line?



6. Rewrite the equation $2x + y + 4 = 0$ in slope-intercept form.

7. Points C(8, 2) and D(-8, -6) are on a line. What is the run from point D to point C?

8. The slope of the line that is perpendicular to the line $y = \frac{3}{5}x - 6$ is

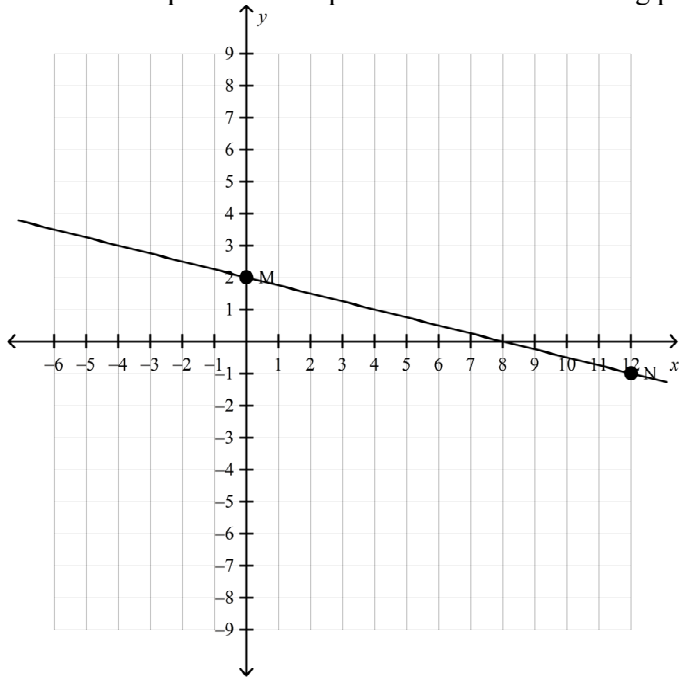
Level 3-4 Questions

9. What is the y -intercept of the line $y = -\frac{5}{13}x$?

10. Rewrite the equation $y = -3x + 4$ in general form.

11. What is the slope of the line passing through points (x, y) and (p, q) ?

12. What is the equation that represents the line containing points M and N?

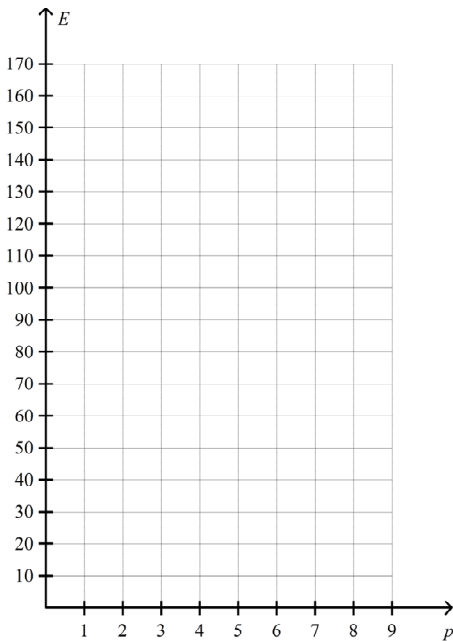


13. When a linear equation is written in the form $Ax + By + C = 0$, A and B cannot both be
14. What is the equation $6x + 2y + 4 = 0$ in slope-intercept form?
15. What are the slope and y -intercept of the relation represented by the equation $12x + 3y + 9 = 0$?
16. What is the slope of the line with an x -intercept of -3 and a y -intercept of -7 ?
17. What is the equation in general form for the line with slope -3 and y -intercept 2 .
18. What is the equation of the line through points $(4, -9)$ and $(7, -12)$?
19. The equation of the line through the point $(3, -9)$ with slope -4 is
20. What is the equation of the line that passes through $(2, 2)$ and is parallel to the line $y = -2x + 5$?

Level 5-6 Questions

21. What is the equation $y = \frac{1}{4}x - \frac{3}{4}$ in general form?
22. Marie invested \$800 in an account that pays 4% simple interest per year. The equation representing Marie's investment is $A = P + Prt$, where A is the value of the investment, in dollars, P is the starting principle amount, in dollars, r is the interest rate written as a decimal, and t is the number of years the money is invested. How many years will pass before the investment is worth \$1344?
23. Taylor invested \$800 in an account that pays 3% simple interest per year. The equation representing Taylor's investment is $A = P + Prt$, where A is the value of the investment, in dollars, P is the starting principal amount, in dollars, r is the interest rate written as a decimal, and t is the number of years the money is invested. What is the value of the investment after 14 years?

24. The slope and y -intercept of the relation represented by the equation $49x + 35y - 5 = 0$ are
25. During one day of work, Sarah earns 10% commission on every purse she sells at Purse World, plus her daily wage of \$30. Each purse costs \$190.
- Write an equation to represent the total earnings Sarah makes per day. Let E represent her earnings, in dollars, and p represent the number of purses she sells during the day.
 - Make a table of values for her earnings for 0 to 5 purses sold.
 - Graph the relation using the table of values.
 - How much money will Sarah make for the day if she sells ten purses?
 - How many purses does Sarah have to sell to make \$467 in a day?

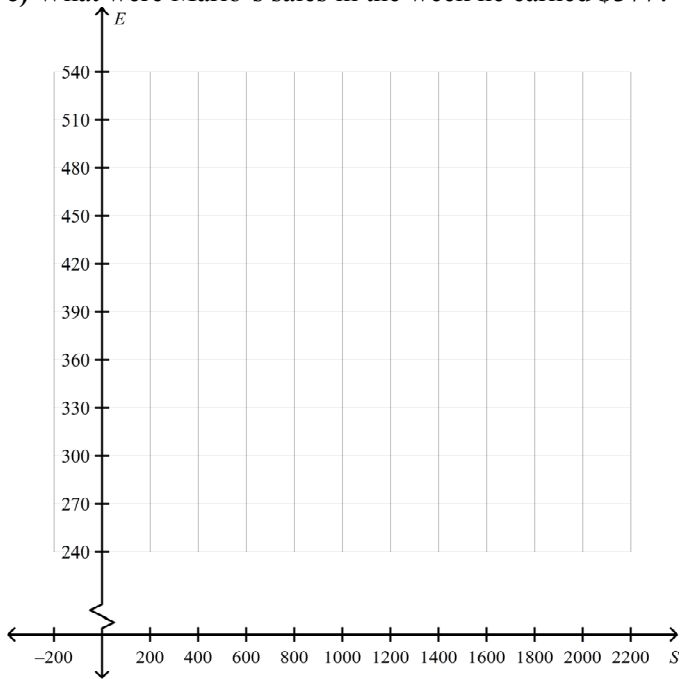


26. What equation represents a line with slope -0.75 and y -intercept 0.75 ?
27. What is the value of p such that the line passing through $(6, 2)$ and $(12, p)$ has a slope of -1 ?

28. Using the table of values, determine the equation of the line.

x	y
0	-8
1	-6
2	-4
3	-2
4	0

29. What is the equation of the line parallel to $y = 4x + 5$ and with the same x -intercept as $4x - 3y = 12$.
30. Mario sells electronics at Big Box Electronics Store. He is paid a salary of \$300 a week plus 7% commission on his sales.
- Write an equation for the line, in the form $E = mS + b$, representing his weekly earnings, E , where S is his weekly sales, both measured in dollars.
 - Draw a graph to model his weekly earnings.
 - Identify the slope and explain what it means.
 - What does the E -intercept represent?
 - What were Mario's sales in the week he earned \$377?



Name: _____

ID: A

Level 7-8 Questions

31. Graph the equations $y = x - 2$ and $x + y = 4$. Then identify the point of intersection.

