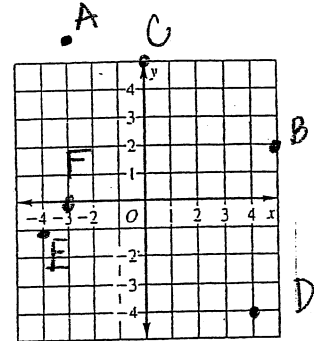


Locate and label the following points on the coordinate plane. Then tell in which quadrant or on which axis the point lies.

1. A(-3, 6) II 2. B(5, 2) I
 3. C(0, 5) y-axis 4. D(4, -4) IV
 5. E(-4, -1) III 6. F(-3, 0) x-axis

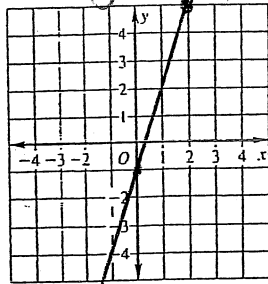


12 points

Complete each input-output table. Then graph the function.

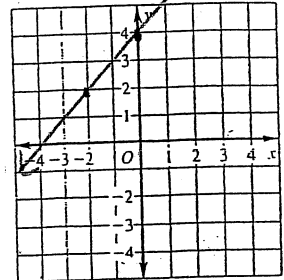
7. $f(x) = 3x - 1$

X	f(x)
-2	-7
0	-1
2	5



8. $f(x) = x + 4$

X	f(x)
-2	2
0	4
2	6



6

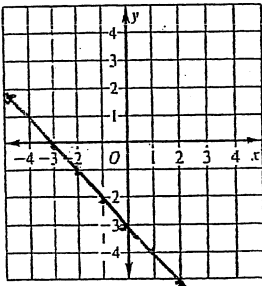
Plug the x value in. Then plot points

ex. $3(-2) - 1 = -6 - 1 = -7$

Match the graph to the correct equation.

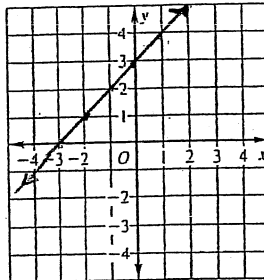
9. $y = x + 3$ B

A.



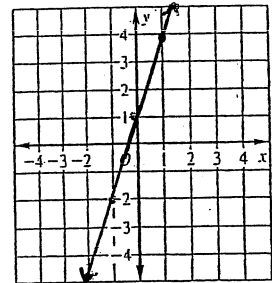
10. $y = -x + 3$ A

B.



11. $y = 3x + 1$ C

C.



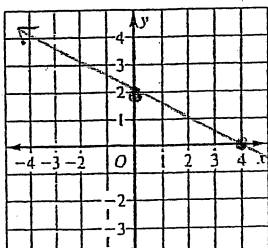
3

Find the x and y intercept of each equation. Then graph the equation by using the intercepts.

12. $x + 2y = 4$

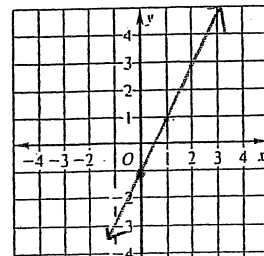
X intercept 4 y intercept 2

$\rightarrow y = \frac{1}{2}x + 2$



13. $y = 2x - 1$

x intercept 1/2 y intercept -1



look where graph crosses each axis

let $y = 0$
 $x + 2(0) = 4$
 $x = 4$

let $x = 0$
 $0 + 2y = 4$
 $2y = 4$
 $y = 2$

27

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope of a line through the given points. Put the slope in simplest form.

14. (2, 5) and (6, 8) $\frac{3}{4}$ 15. (-3, 1) and (7, -2) $-\frac{3}{10}$ 16. (9, 1) and (-18, 0) $\frac{1}{27}$

$$\frac{5-8}{2-6} =$$

$$\frac{1+2}{-3-7} = \frac{3}{-10}$$

$$\frac{1-0}{9+18}$$

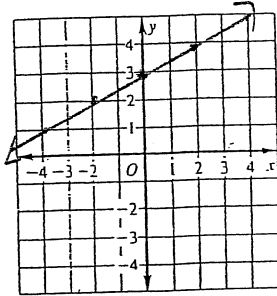
Graph each equation.

17. $y = \frac{1}{2}x + 3$

$$m = \frac{1}{2}$$

$$b = 3$$

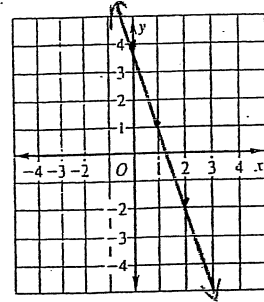
↓ begin here on y-axis



18. $y = -3x + 4$

$$m = -\frac{3}{1}$$

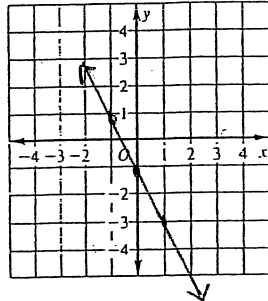
$$b = 4$$



19. $y = -2x - 1$

$$m = -\frac{2}{1}$$

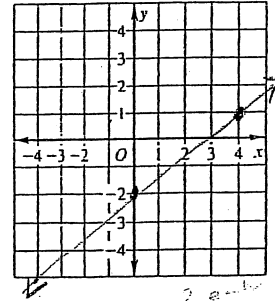
$$b = -1$$



20. $y = \frac{3}{4}x - 2$

$$m = \frac{3}{4}$$

$$b = -2$$



Solve each equation for y to put it in slope intercept form.

21. $3x + y = 9$ $y = -3x + 9$

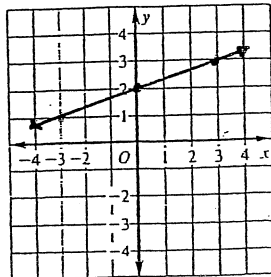
22. $\frac{2x + 5y = 20}{5 \quad 5 \quad 5}$ $y = -\frac{2}{5}x + 4$
 $y = -\frac{2}{5}x + 4$

23. $9x - y = 2$ $9x - 2 = y$
 $9x = 2 + y$
 $9x - 2 = y$

24. $\frac{-15y = 15x + 20}{-15 \quad -15 \quad -15}$ $y = -x - \frac{4}{3}$
 3 each

Write the equation of the line in slope intercept form.

25. $y = \frac{1}{3}x + 2$



26. $y = -4x - 1$

