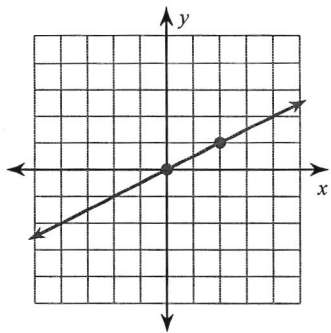


BOARD PROBLEMS CH. 8

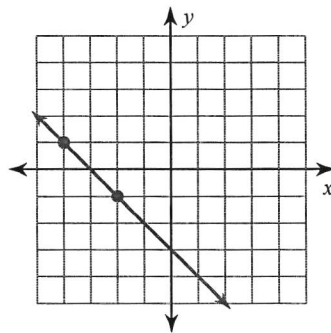
Finding Slope From a Graph

Find the slope of each line.

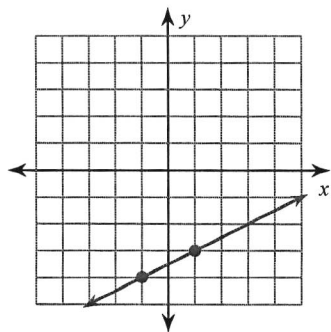
1)



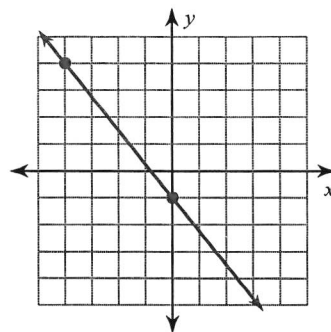
2)



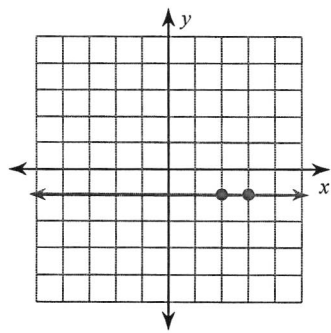
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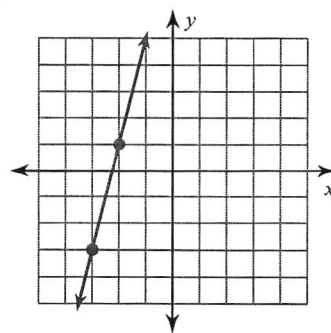
4)



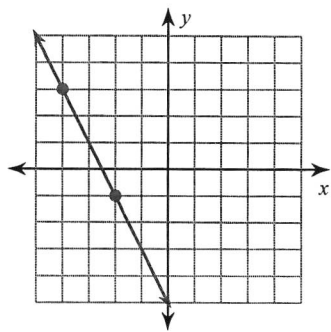
5)



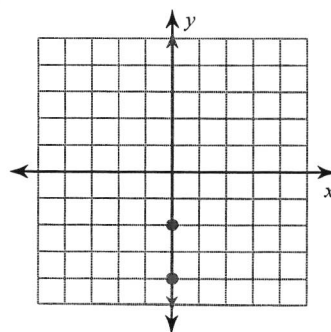
6)



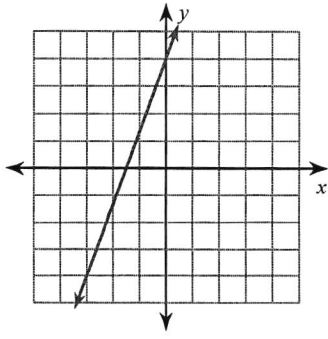
7)



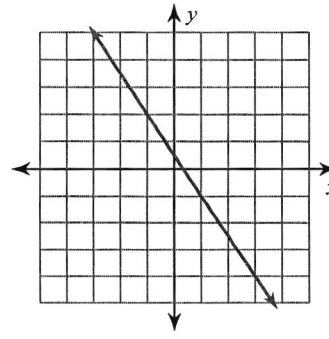
8)



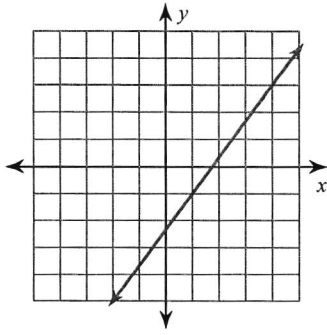
9)



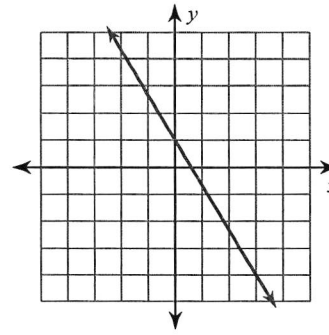
10)



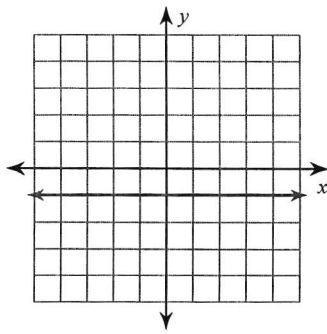
11)



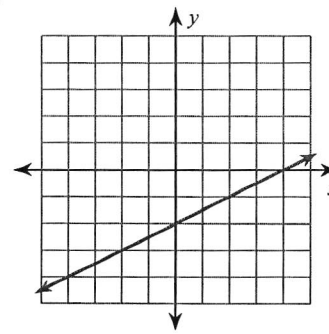
12)



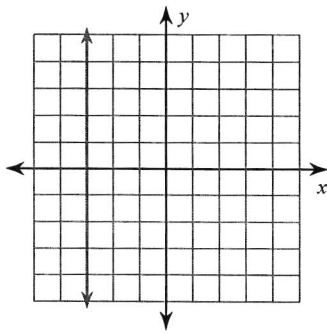
13)



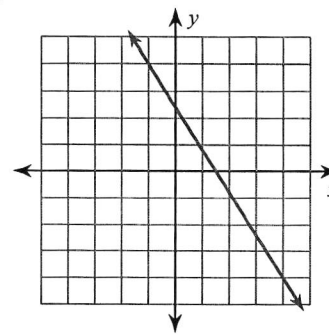
14)



15)



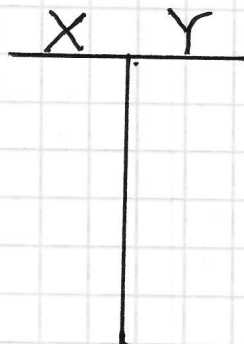
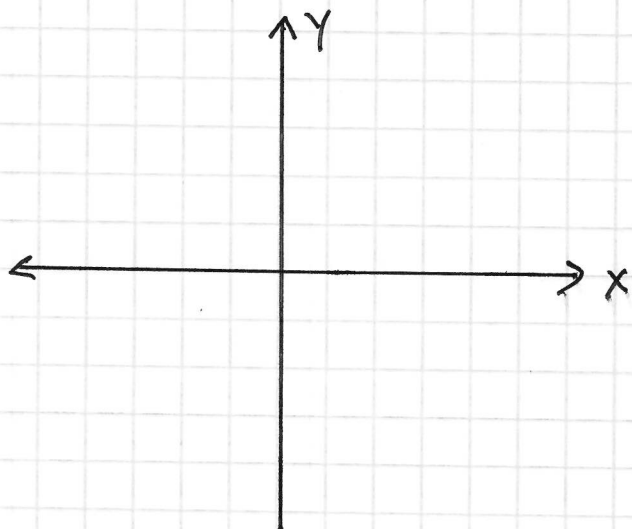
16)



NOTES CH. 8

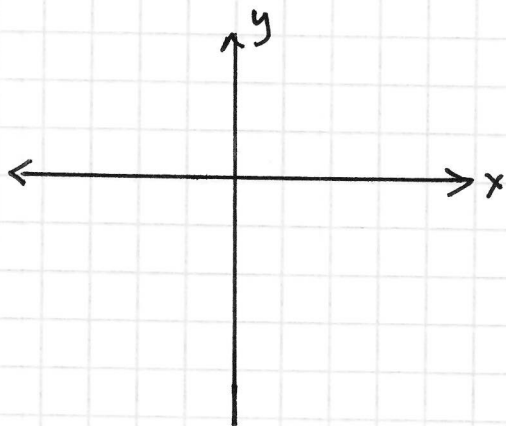
GRAPHING FROM SLOPE-INTERCEPT EQUATION

$$Y = 3x + 2$$

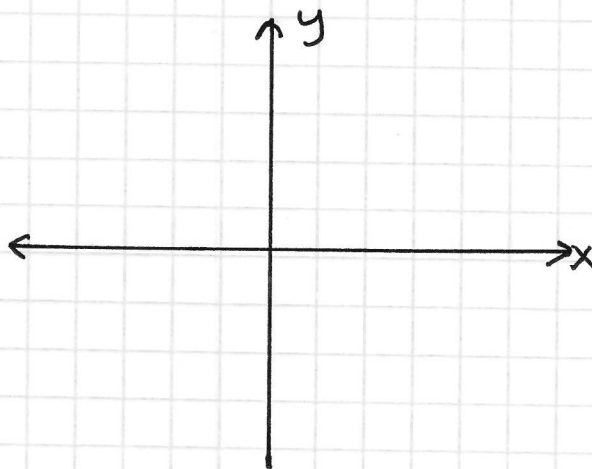


PLOT b on y -axis, THEN APPLY SLOPE IN BOTH DIRECTIONS.

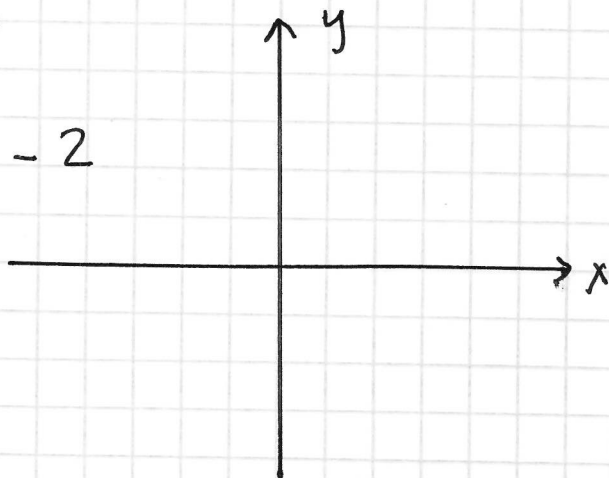
$$Y = -2x - 4$$



$$Y = \frac{1}{2}x + 1$$



$$Y = \frac{2}{3}x - 2$$



$$y = -\frac{4}{5}x$$

$$y = \frac{1}{4}x + 1$$

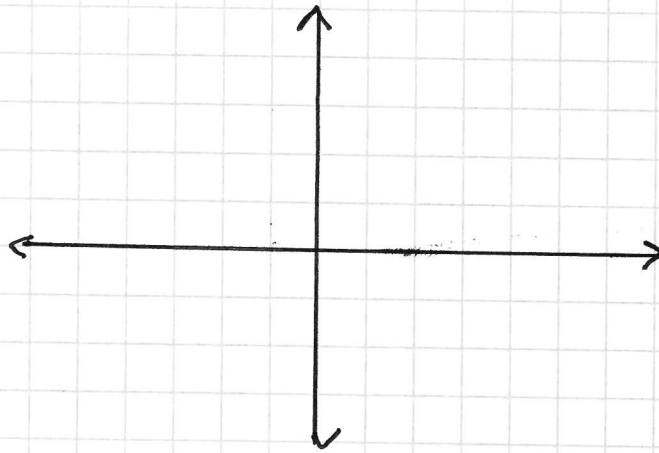
NOTES CH. 8

GRAPH Special CASES

$$x = 2, y = -1, x = -3, y = 2$$

$$m =$$
$$b =$$

$$m =$$
$$b =$$



SYSTEMATIC REVIEW

WHAT FRACTION OF 6 IS 3?

WHAT FRACTION OF $\frac{1}{2}$ IS 8?

WHAT FRACTION OF 12 IS 18?

Solve for x.

$$\frac{1}{3}x + \frac{3}{4} = \frac{4}{5}$$

$$.007x + .15 = -.3$$

Circle your answer.

1. Sally gained three pounds over vacation, and then she lost one pound per week.

If P = pounds and W = weeks, which is the correct equation?

- A. $P = (-1)W + 3$
- B. $P = W - 3$
- C. $P = -3W + 1$
- D. $P = -10W + 50$
- E. $P = W + 3$

2. The politician's popularity rating was 50%. Then he began to lose popularity at a rate of 10% per week.

If R = current rating and W = weeks, which is the correct equation?

- A. $R = 10W - 50B$
- B. $R = -50W + 10$
- C. $R = 50W - 10$
- D. $R = -10W + 50$
- E. $R = -10W - 50$

3. George started his business with \$4. Unfortunately, he lost \$5 a day.

If M = money and D = days, which equation shows his financial condition?

- A. $D = -5M + 4$
- B. $D = 5M - 4$
- C. $M = 5D + 4$
- D. $M = -5D - 4$
- E. $M = -5D + 4$

4. Jim was already in debt \$5 when he went into business. However, he was able to make \$4 a day.

If M = money and D = days, which is the correct equation?

- A. $M = -4D + 5$
- B. $M = 4D + 5$
- C. $M = 4D - 5$
- D. $D = 4M - 5$
- E. $D = -4M + 5$

5. Shelly tended to lose things. She lost four things last month. This month she lost her belongings at the rate of three per week.

If T = things and W = weeks, choose the correct equation.

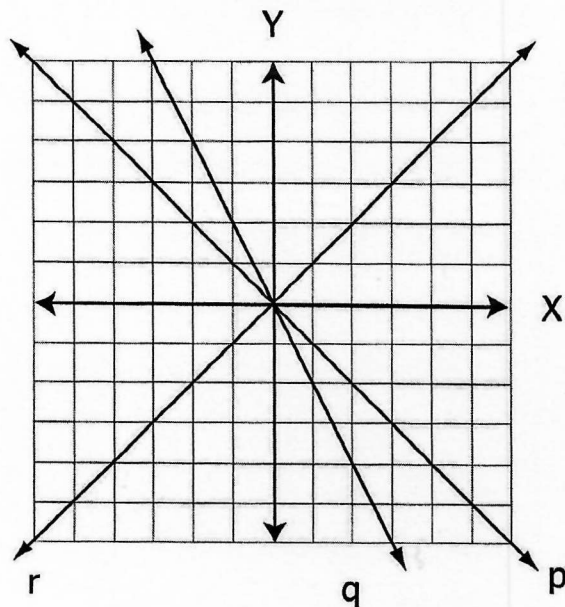
- A. $W = -3T - 4$
- B. $T = -3 - 4W$
- C. $T = -3W + 4$
- D. $T = -3W - 4$
- E. $T = -4W - 3$

6. What is the slope of the line described by $Y = 4X + 1$?

- A. 4
- B. 1
- C. 5
- D. 3
- E. -4

7. What is the slope of the line described by $Y = -2X + 6$?
- A. 6
 - B. 2
 - C. -2
 - D. -6
 - E. 4
8. What is the slope of the line described by $Y = \frac{1}{2}X - 5$?
- A. -5
 - B. 15
 - C. 2
 - D. $-\frac{1}{2}$
 - E. $\frac{1}{2}$
9. What is the Y-intercept of a line that includes the following points: $(0, 2)$, $(1, 5)$, $(-1, -1)$?
- A. 0
 - B. 2
 - C. 1
 - D. 5
 - E. 8
10. Sketch the line described in #9. What is its slope?
- A. 3
 - B. 1
 - C. $\frac{1}{3}$
 - D. 2
 - E. 5
11. What is the equation for the line described in #9 and #10?
- A. $Y = 2X + 3$
 - B. $Y = 5X$
 - C. $Y = 3X + 2$
 - D. $Y = \frac{1}{3}X + 2$
 - E. $Y = 2X + \frac{1}{3}$

Use the graph for #12–15.



12. The slope of line r is:

- A. -1
- B. 1
- C. 2
- D. $1/2$
- E. -2

14. The slope of the X-axis is:

- A. 0
- B. 1
- C. -1
- D. $1/2$
- E. .01

13. The slope of line q is:

- A. 4
- B. -2
- C. 2
- D. $1/2$
- E. $-1/2$

15. The slope of line p is:

- A. -1
- B. 1
- C. 2
- D. $1/2$
- E. -2