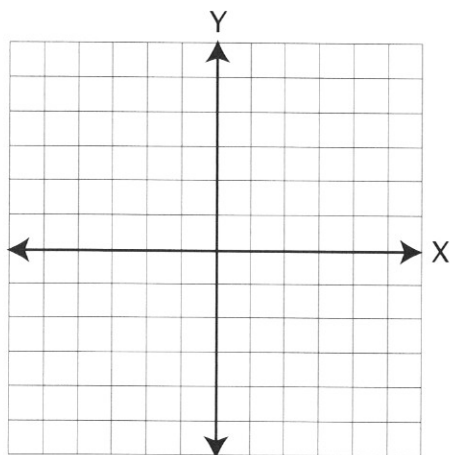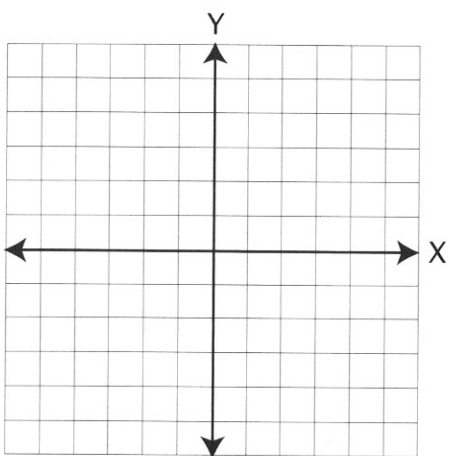Identify the slope and intercept of each equation.
Then draw the line corresponding to the equation.

1. $Y = -2X - 5$

   m = _____

   b = _____

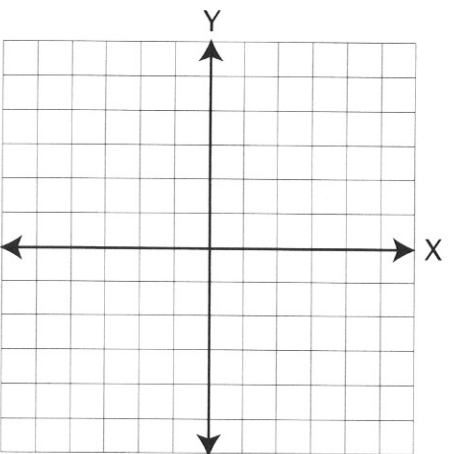2. $Y = -3/2 \ X$

   m = _____

   b = _____

3. $X = 0$

   m = _____

   b = _____
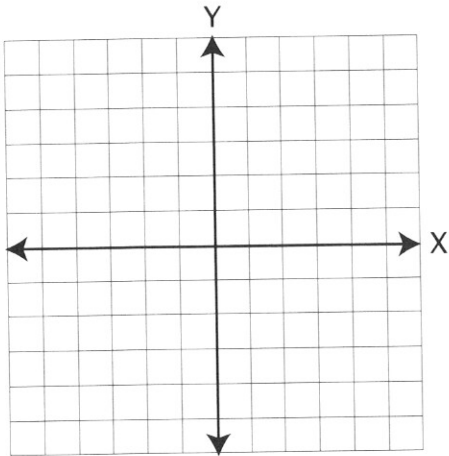
4. $Y = -3X + 2$

m = _____

b = _____

5. $Y = 2X - 1$

m = _____

b = _____

6. $Y = 4$

m = _____

b = _____
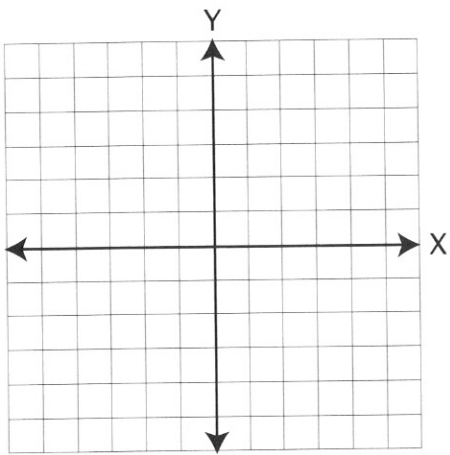
1. Joey borrowed four dollars to open a video store. He lost one dollar each day. Fill in the table on the right.
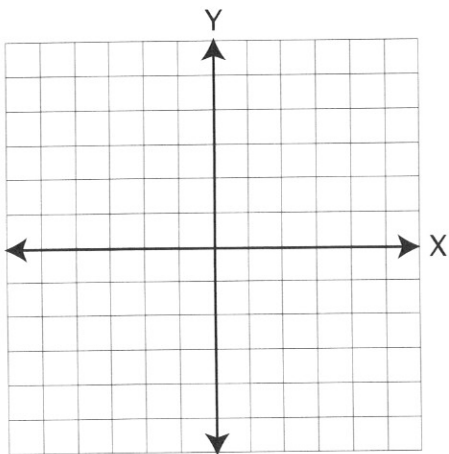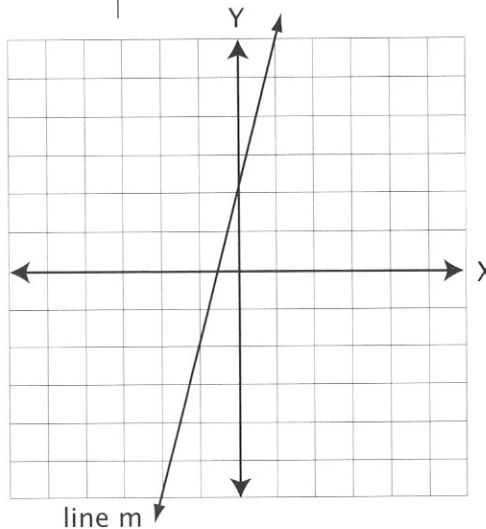
Day	Dollars
____	____
____	____
____	____
____	____

2. Plot these points and connect them.

3. Write an equation for the line.

(Dollars = ____ per Day – ____ borrowed)

line m

4. Given: Y = –2X.
   This time Joey started with ____ dollar(s) and lost ____ dollars each day.
   Use the table under the graph.

5. Graph the points and the line.

Day	Dollars
____	____
____	____
____	____
____	____

6. The slope is ____ and the intercept is ____ .

7. Estimate the slope and intercept of line *m* on the graph.

8. What would the equation of the line be using the slope–intercept formula?

9. This line is graphed within which quadrants?

10. Graph Y = –2 and label it line *g*.

Simplify and solve for the unknown.

11. $60R - 90R = 70$

12. $-18 + 54X = 27$

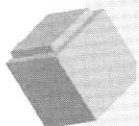13. $[(6 + 5)^2 - 1] \div 12 = 3X + |-2X|$
    X is positive

14. $4B - 32B = 36B - 8BY \ (4B \neq 0)$

15. $1.03 - .8Y = 5$

16. $3\frac{3}{4}Y = 2\frac{1}{5} + 3\frac{5}{6}$

17. $5X - 20 = 50X + 35$

18. $\frac{3}{10}X - 3\frac{1}{6}X = 4\frac{1}{4}$

QUICK REVIEW

"What fraction of 6 is 3?" is written as WF x 6 = 3.

EXAMPLE Write an equation and solve: What fraction of 10 is 5?
WF x 10 = 5 Solving for the unknown :

$$\frac{1}{10}(WF \times 10) = \frac{1}{10}(5) \rightarrow WF = \frac{5}{10} = \frac{1}{2}$$

19. Write an equation and solve:
    What fraction of 7 is 5?

20. Write an equation and solve:
    What fraction of 5 is 2?