

Graphing Applications

Name _____

For each of the equations, answer the following questions.

1) The library charges 50¢ a week for a late book.

- a) Write an equation for total fee. b) Define the variables:
 X = _____
 Y = _____

c) Find the x- and y-intercept.
 x-int:

y-int:

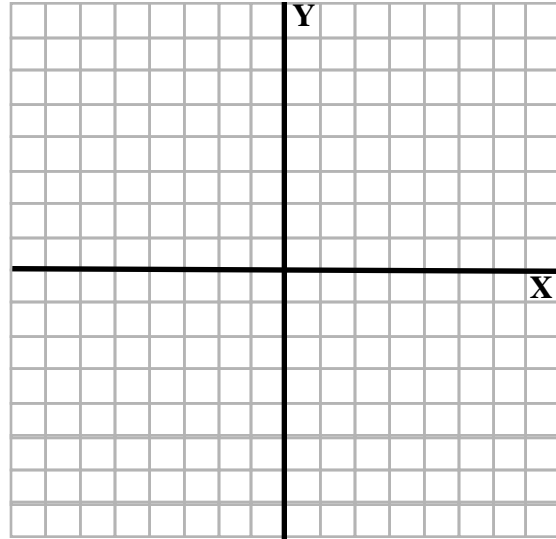
d) Complete the table and graph.

x	y

e) What is the slope of the line?

$$M = \text{SLOPE} = \frac{\text{RISE}}{\text{RUN}} =$$

f) Does the graph increase or decrease?



2) Flowers are \$1 each with a \$3 delivery charge.

- a) Write an equation for total fee. b) Define the variables:
 X = _____
 Y = _____

c) Find the x- and y-intercept.
 x-int:

y-int:

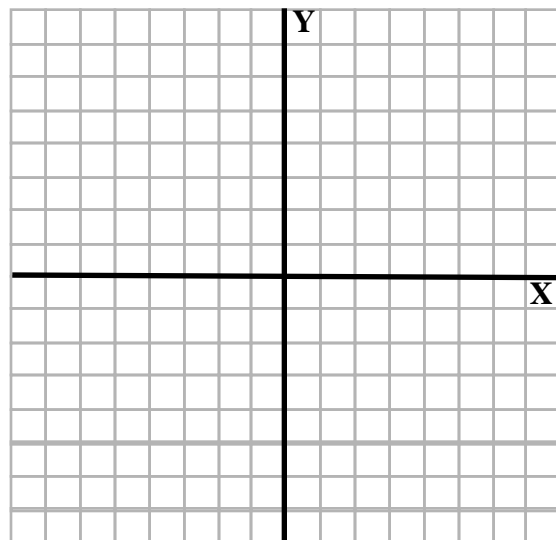
d) Complete the table and graph.

x	y

e) What is the slope of the line?

$$M = \text{SLOPE} = \frac{\text{RISE}}{\text{RUN}} =$$

f) Does the graph increase or decrease?



3) We owe \$7 and we are paying it back at the rate of \$2 a day.

a) Write an equation for the amount owed.

b) Define the variables:

X = _____
Y = _____

c) Find the x- and y-intercept.
x-int:

y-int:

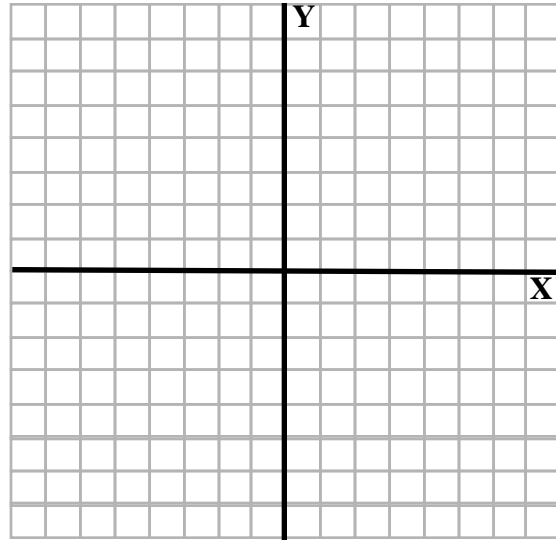
d) Complete the table and graph.

x	y

e) What is the slope of the line?

$$M = \text{SLOPE} = \frac{\text{RISE}}{\text{RUN}} =$$

f) Does the graph increase or decrease?



4) A hole is 1 foot deep and you are digging down at 2 feet a minute.

a) Write an equation for the depth of the hole.

b) Define the variables:

X = _____
Y = _____

c) Find the x- and y-intercept.
x-int:

y-int:

d) Complete the table and graph.

x	y

e) What is the slope of the line?

$$M = \text{SLOPE} = \frac{\text{RISE}}{\text{RUN}} =$$

f) Does the graph increase or decrease?

