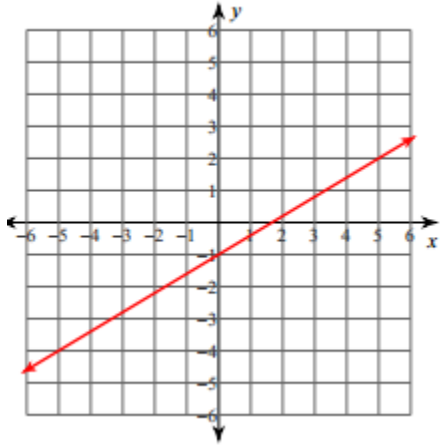


Assignment 26

For each of the linear functions below, state the slope and y - intercept

1.



m = _____ b = _____

2.

$$y = -6x + 10$$

m = _____ b = _____

3.

x	-1	0	1	2	3	4
y	7	5	3	1	-1	-3

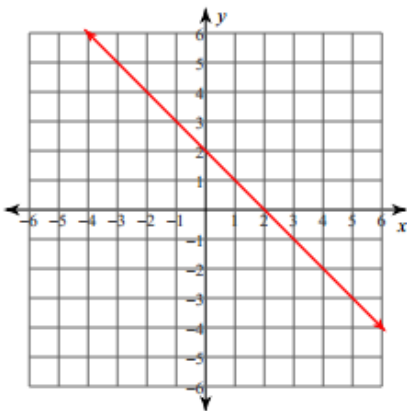
m = _____ b = _____

4. Vanessa has to make up a lot of homework assignments for this semester. She has already completed 4 assignments and completes the remaining at a rate of 3 assignments per hour.

m = _____ b = _____

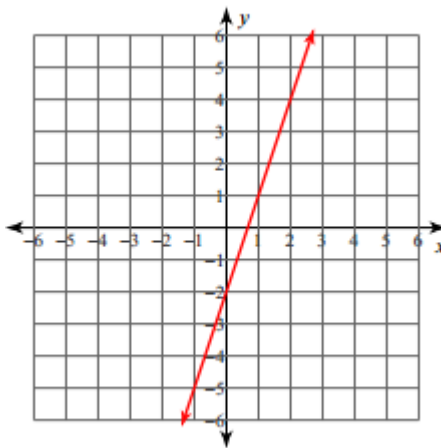
For each linear function below, state what the equation is.

5.



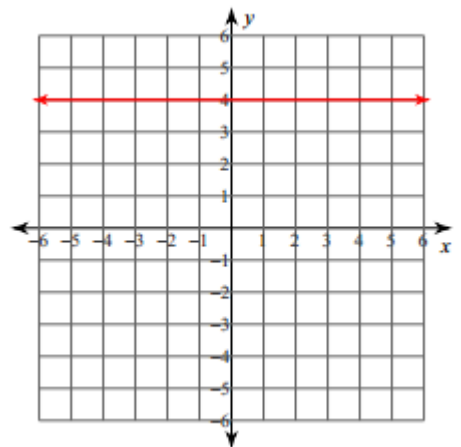
Equation _____

6.



Equation _____

7.



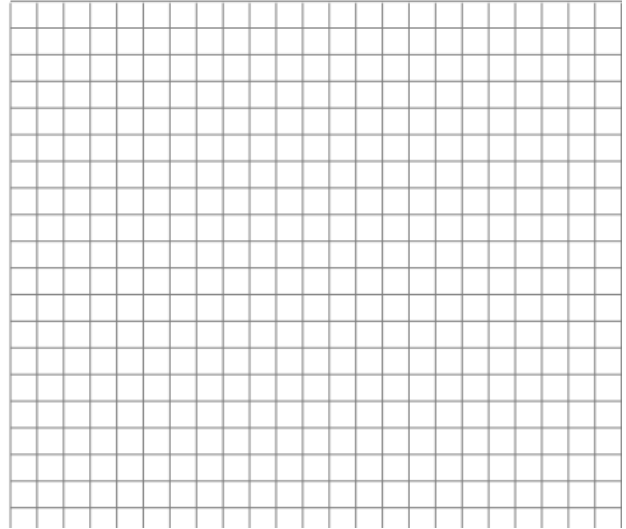
Equation _____

Assignment 26

8. Jocelyn opens an account at a bank to save her money. When she opens the account, she deposits \$50 that she already has saved. Every week, Jocelyn's income is \$200. She plans on saving 10% of her weekly income in the bank.

a) Write an equation that relates the number of weeks, w , to the amount of dollars, d , she has saved in her bank account.

b) Graph Jocelyn's function on the graph to the right:



c) Is Jocelyn's function linear? How do you know?

9. Two students are in a competition to raise the most money for a charity event. Hamial shows how much she collected in the table. Mariam showed how much she collected in the equation.

Hamial

days, x	0	2	4	6
\$, y	0	11	22	33

Mariam

$$y = 6.50x$$

a) Which student will have collected more by the end of 2 weeks? How do you know?

b) Do Hamial's and Mariam's functions represent proportional relationships? State how you know.