

2-6 Homework

Real World Functions

QUESTION 1:

Jackie can 150 meters every minute. She is training for a track meet. She ran 500 meters during a warm up. Write a function that represents how many meters Jackie can runs in total at any given minute. Then determine how many meters she runs after 12 minutes.

Ind. Var. (x)	Dep. Var. (y)
m =	b =
Equation:	

Solve:

QUESTION 2:

Buck Lodge is raising money for Hoops for Heart in the Spring. They raised \$1000 in the fall, and are asking students to bring in \$5 each. Write a function that represents how much money is raised for x students. Then determine how much money will be raised if 250 students participate.

Ind. Var. (x)	Dep. Var. (y)
m =	b =
Equation:	

Solve:

QUESTION 3:

Your family spends \$80 for tickets to a Barcelona game and \$3 per hour for parking. Write a function that represents the total cost of your family's outing to the soccer game after x hours. Then determine how much your family spends in total if they stay for 3 hours.

Ind. Var. (x)	Dep. Var. (y)
m =	b =
Equation:	

Solve:

QUESTION 4:

Adrian is setting up a digital portfolio of his raps. The initial fee to have a website set up is \$60. It costs \$44 per month to maintain the website. Write a function that represents the total cost of setting up and maintaining a website for x months. Then find how much he has to spend to keep his website up for 12 months.

Ind. Var. (x)	Dep. Var. (y)
m =	b =
Equation:	

Solve:

QUESTION 5:

Angie has a lunch food budget of \$120. She spends \$4 per day on lunch. Write a function that represents how much money is left in her lunch budget after x days of buying lunch. Then determine how much money Angie has left in her account after 7 days.

Ind. Var. (x)	Dep. Var. (y)
m =	b =
Equation:	

Solve:

QUESTION 6:

In the year 2000, the U.S. had 31 million immigrants in its population. Since then, the population of immigrants has grown by 1.4 million each year. Write a function that represents the total number of immigrants in the U.S. in any given year (x). Then determine how many immigrants were in the U.S. in 2010.

Ind. Var. (x)	Dep. Var. (y)
m =	b =
Equation:	

Solve: