A mechanic is paid $14.00 per hour for regular time and time and a half for overtime.
Write a function for the weekly wage, W, where h is the number of hours worked in a week.
Using your Function:
Evaluate W(30), W(40), W(45) and W(50).

Your favorite dog groomer charges according to your dog's weight. If your dog is 15 pounds
and under, the groomer charges $35. If your dog is between 15 and 40 pounds, she charges
$40. If your dog is over 40 pounds, she charges $40, plus an additional $2 for each pound over
40.
A. Write a piecewise function that describes what your dog groomer charges.
B. Graph the function.
C. What would the groomer charge if your cute dog weighs 60 pounds?

During a 9 hour snowstorm, it snows at a rate of 1 inch per hour for the first 2 hours, at a rate
of 2 inches per hour for the next 6 hours, and at a rate of 0.5 inches per hour for the final hour.
A. Write piecewise function that gives the depth of the snow during the snowstorm.
B. Graph the function.
C. How many inches of snow accumulated from the storm?

Homework: Please complete on a piece of paper to turn in.

You plan to sell t-shirts as a fundraiser. The wholesale t-shirt company charges you $10 a shirt
for the first 75 shirts. After the first 75 shirts you purchase up to 150 shirts, the company will
lower its price to $7.50 per shirt. After you purchase 150 shirts, the price will decrease to $5
per shirt.

A. Write a function that models this situation.

B. How much to you pay for an order of 180 shirts?

C. If you instead had to pay $10 per shirt no matter what the order size, how much more
money would you have spent on 180 shirts?

D. The club sells each shirt for $15. If you purchased 180 shirts to sell, how many must you
sell in order to break even with your expenses?

E. If you sell all 180 shirts, how much did the club raise that it can spend for future
expenses?