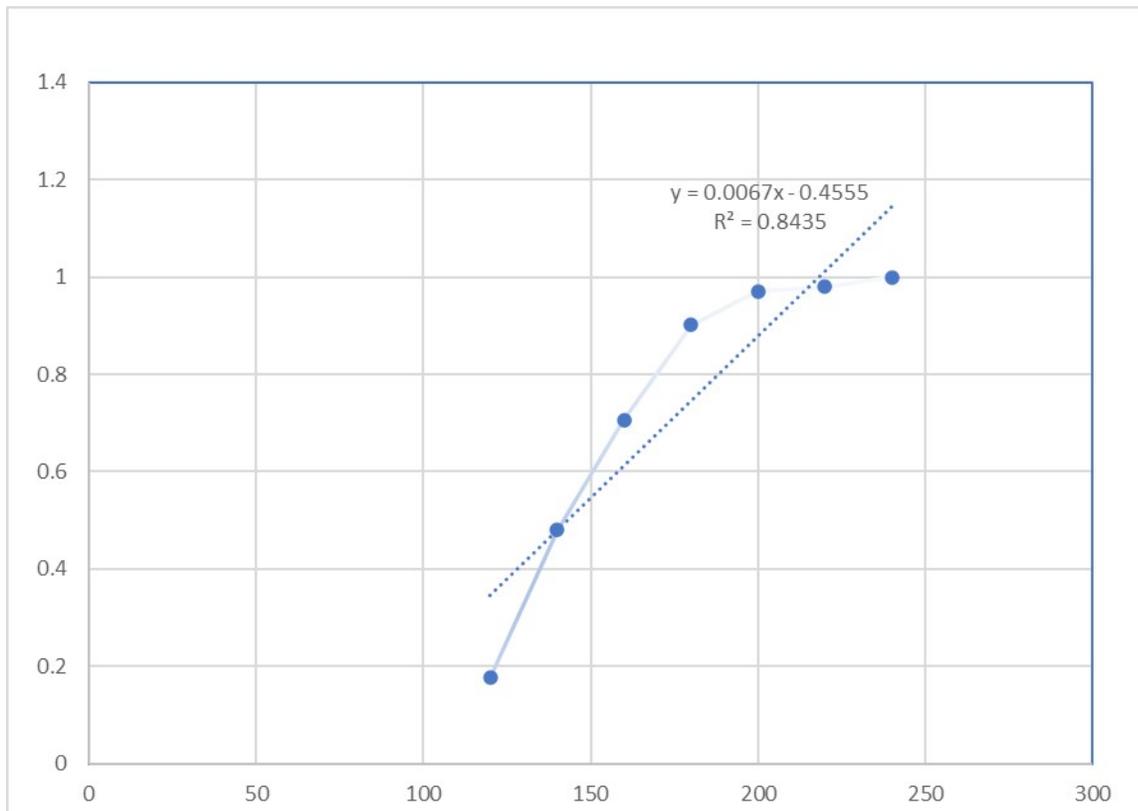Skye Bonaby

Environmental Engineering

Module Assessment 3

3.1

a. y=0.0067(10)-0.455

   y=0.388
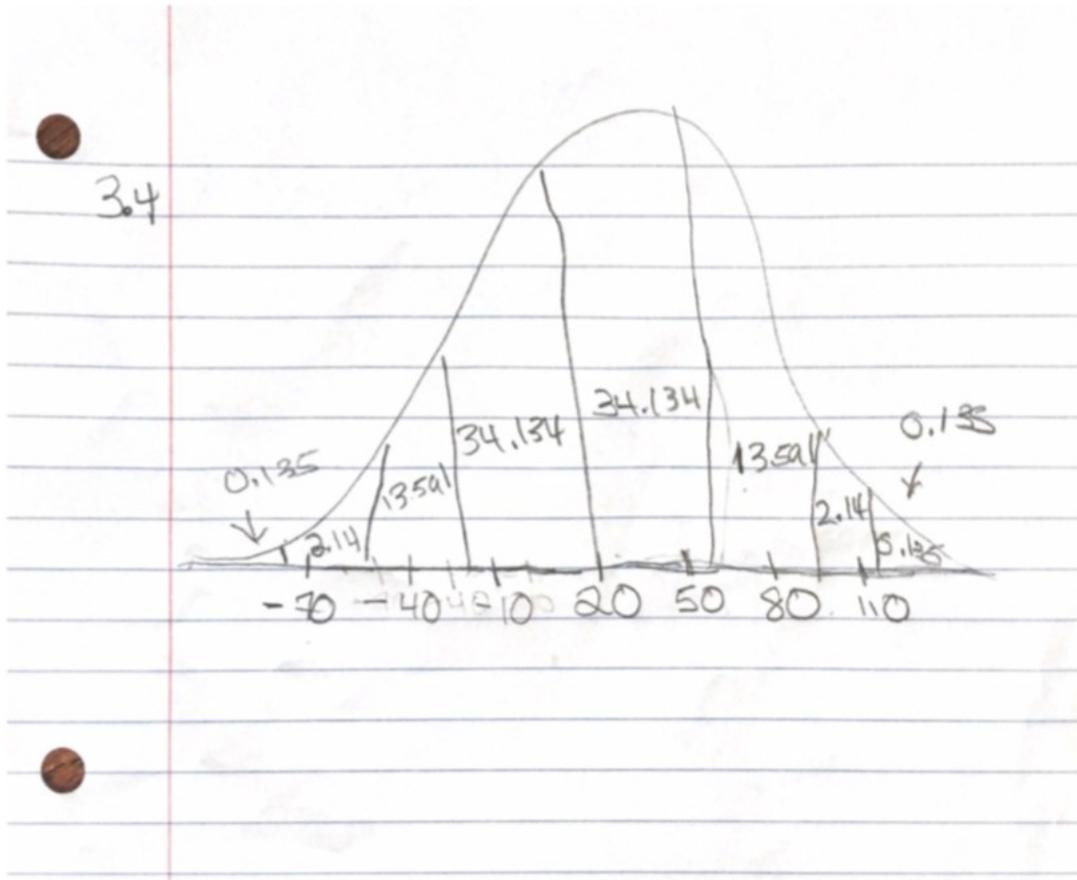
b. y= 0.0067(50)-0.455

   y= 0.12

c. y= 0.0067(95)-0.455

   y= 0.1815

3.4

a. 15.866%

b. 84.134%

c. 2.14-0.135=2.005%

d. 47.725%

3.8

1 year=365 days

1.96x10^8 barrels of beer were made in a year

1 barrel=31 US gallons

1.96x10^8 x 31 us gallons=6076000000 US gallons per year

6.706x10^9 gallons a year being made

6.706x10^9/365 =

18,372,602.74 gallons consumed a day

3.10

2.7 x 10^8 cars is the US

A regular driver gets 3 flats per year

Assuming that they change their tire and buy a new one

3 new tires x 1 year x 2.7x10^8=

8.1x10^8 tires a sold annually