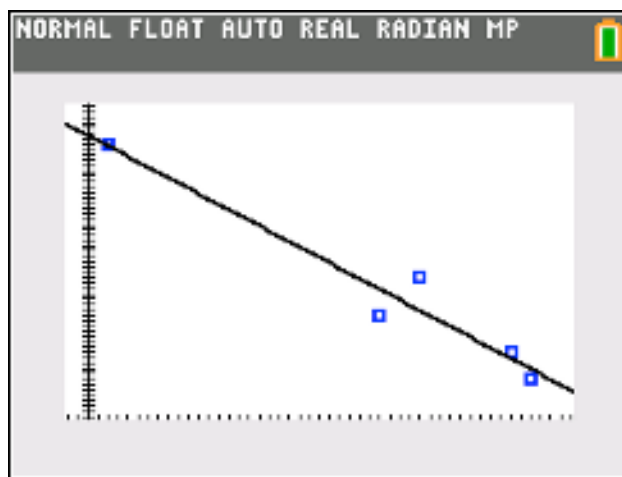
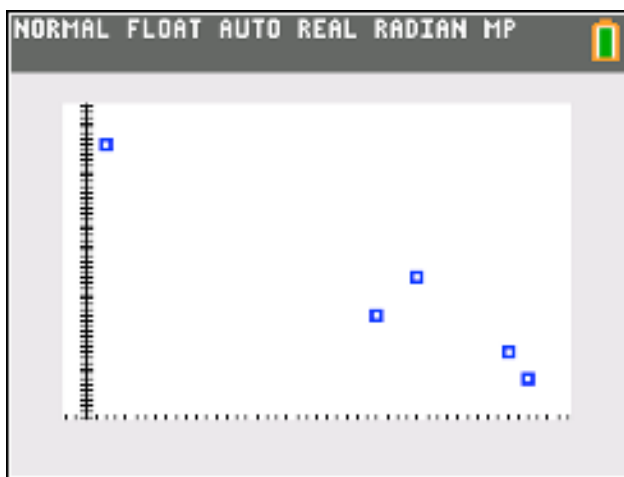


City	North Latitude	Elevation (ft)	Maximum normal temp in Jan (in F)
Miami, FL	26°	7	75
Charleston, SC	33°	40	50
Washington, DC	39°	10	43
Boston, MA	42°	15	36
Portland, ME	44°	43	31

1. Use your GDC to draw a scatter plot of the latitude and temperature

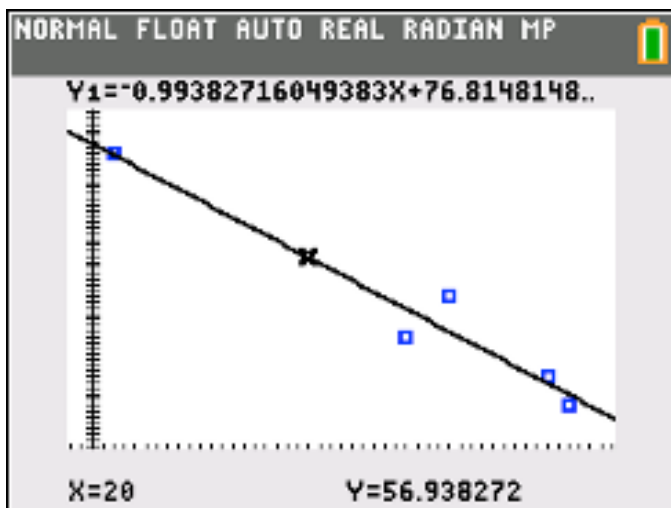


2. Use your GDC to determine the equation for the line of best fit. Write it down rounding to the nearest hundredth.

$$y = -0.99x + 76.81$$

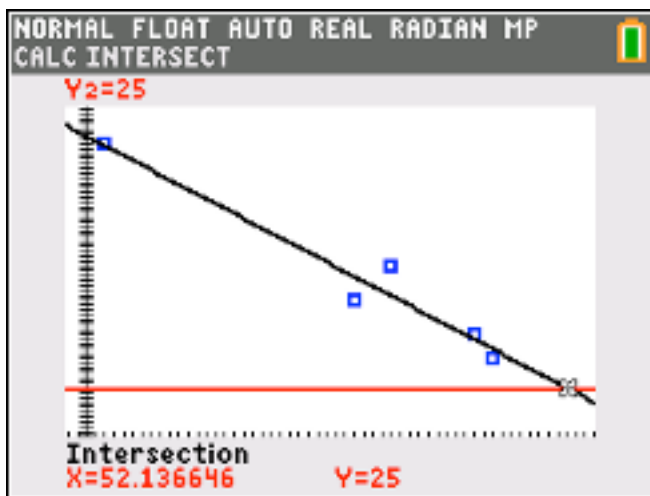
3. If the latitude is 20, what do you expect the temperature to be in January?

~ 57° F

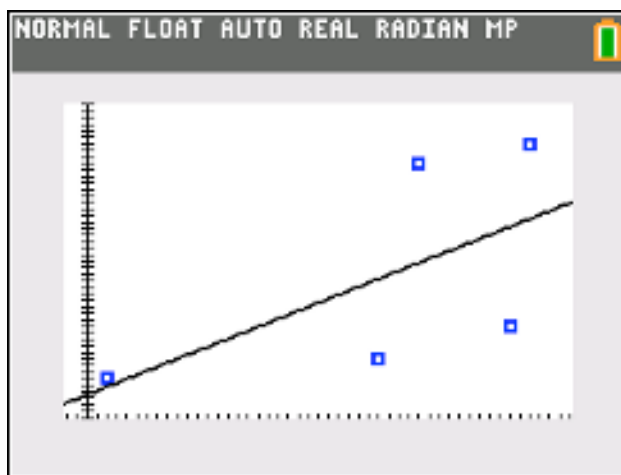
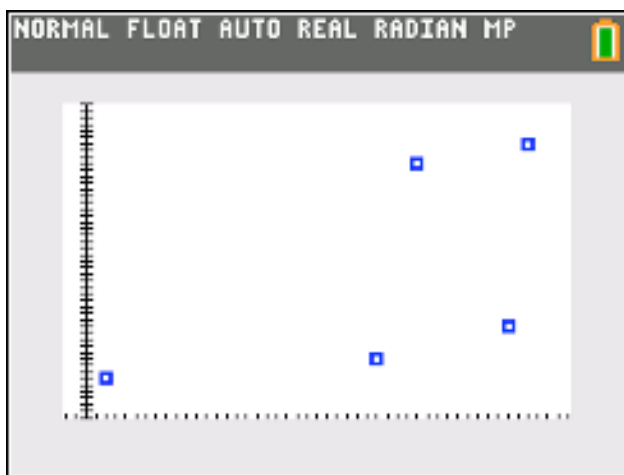


4. If the temperature in January is 25F, what do you expect is the north latitude?

~ 52°



5. Use your GDC to draw a scatter plot of the latitude and elevation.



6. Use your GDC to find the equation for the line of best fit. Write it down rounding to the nearest hundredth.

$$y = 0.61x + 4.59$$

7. Do you think a line best fits the data? Why or why not?

\*various answers accepted depending on your reasoning