

graphing calculators

Graphing calculator reminders:

Starting out:
2nd Quit <clear>
Y= <clear>
Statplots <off>
Stat>edit> clear lists

Enter data: Stat>edit

Graphing: 2nd Y= <Statplot> on scatterplot L1, L2

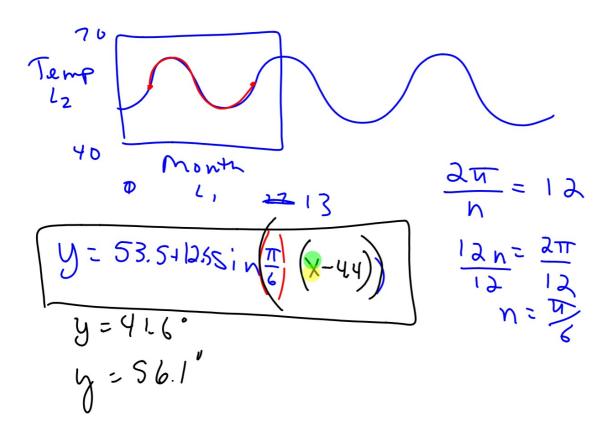
Window x min/max ymin/max Check mode: Are you in degrees or radians? Could be either, but you need to know for window setting, etc.

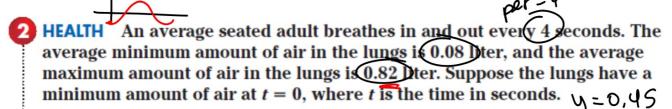
6. Meteorology The average monthly temperatures for the city of Seattle, Washington, are given below. (degrees of temp...degrees/radians)

LI	lan	F 2	March	Δ	May	luka	lulv	A.S.	Sant	dw	N6V	Dag
4,	41°	44°	47°	50°	56°	61°	65°	66°	61°	54°	46°	42°

- a. Find the amplitude of a sinusoidal function that models the monthly temperatures. λ
- b. Find the vertical shift of a sinusoidal function that models the monthly temperatures. 53.5
- c. What is the period of a sinusoidal function that models the monthly temperatures?
- d. Write a sinusoidal function that models the monthly temperatures, using t = 1 to represent January.
- According to your model, what is the average monthly temperature in February? How does this compare to the actual average?
- f. According to your model, what is the average monthly temperature in October? How does this compare to the actual average?

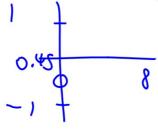
Graph data
degrees or radians
choose sine or
cosine
centerline
amplitude
period
horizontal shift...?





- a. Write a function that models the amount of air in the lungs.
- b. Graph the function. $y = 0.45 0.37 \cos\left(\frac{\pi}{2}\right) x$
- c. Determine the amount of air in the lungs at 5.5 seconds

4h = 1



choose sine or cosine centerline amplitude period horizontal shift?

period (trig) = wavelength (physics)