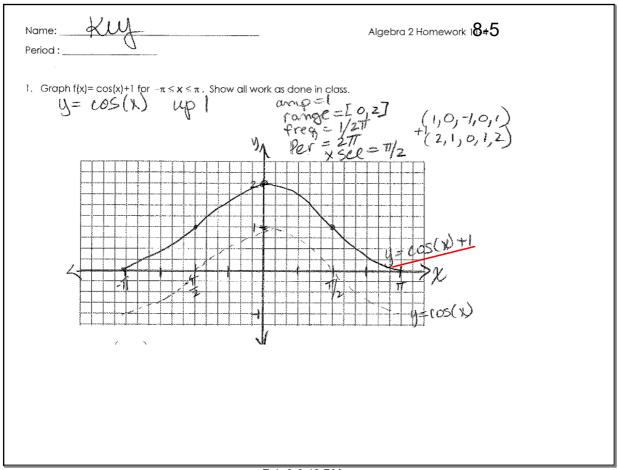
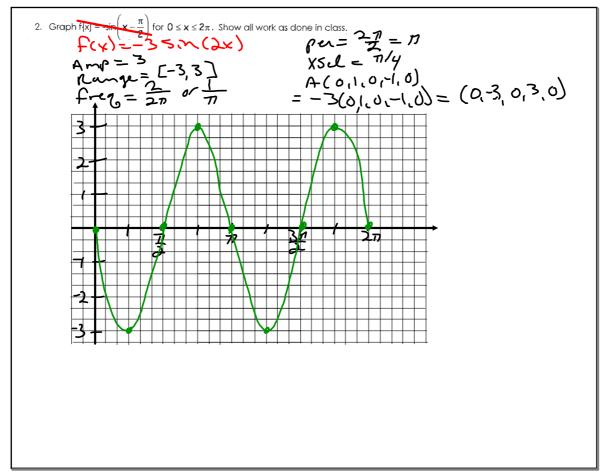
HOMEWORK 8-5

See the graphs on the following slides...

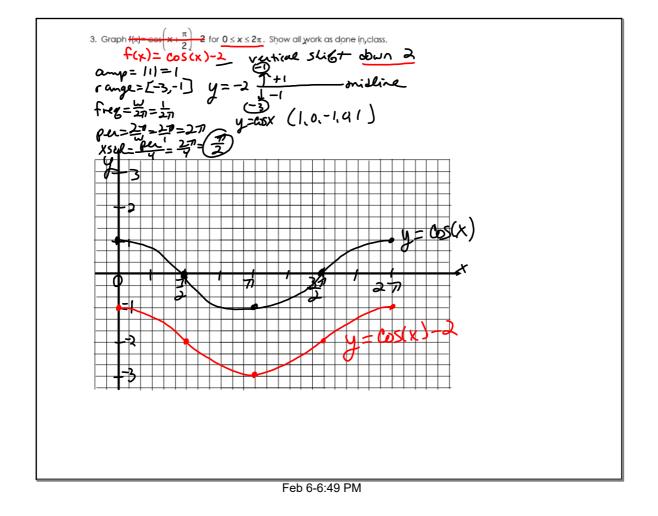
Show me both HW 8-5 & HW 8-4 from yesterday

Feb 6-6:47 PM

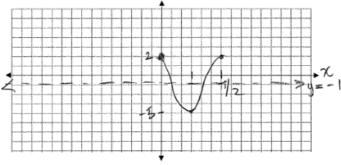




Feb 6-6:48 PM



4. (*) On the set of axes below, graph one cycle of a <u>cosine</u> function with amplitude 3, period $\frac{\pi}{2}$, $\left(W\right) = \frac{2\pi V}{V} = 2\pi V \left(\frac{2\pi V}{V}\right)$



Feb 6-6:49 PM

Go to end of Day 5 Notes — S+২৮/বৃদ্

fcx) = Asin(w(x-h)) +K

3. Describe the graph for $f(x) = 5 + 2\sin(x+3)$.

Amplitude: 2Period: 21 = 27 = 27

Phase Shift: 16+ 3

Vertical Shift: 45 (midline)

Minimum: 3

Maximum: 7

Signature

Maximum: 7 lange: [3,7]

4. Describe the graph for $f(x) = 30 \cos \frac{\pi}{2}(x-15) - 75$.

Amplitude: 30Period: $\frac{2\pi}{7/2} = ^{2}\pi$. $\frac{2}{7} = 4$

Phase Shift: 15 6:0/ht

Vertical Shift: 75 abun

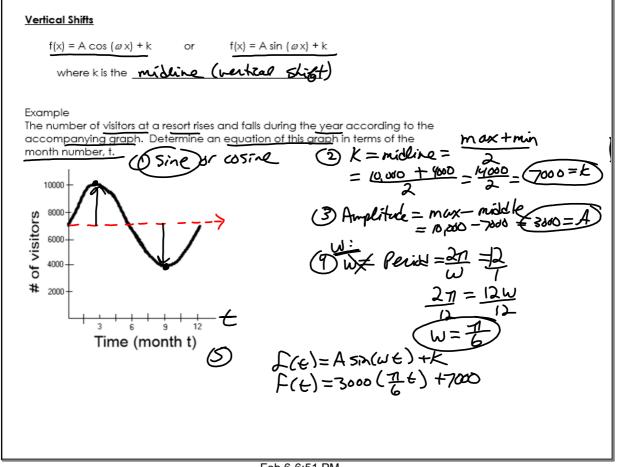
Minimum: -105

Maximum: -45

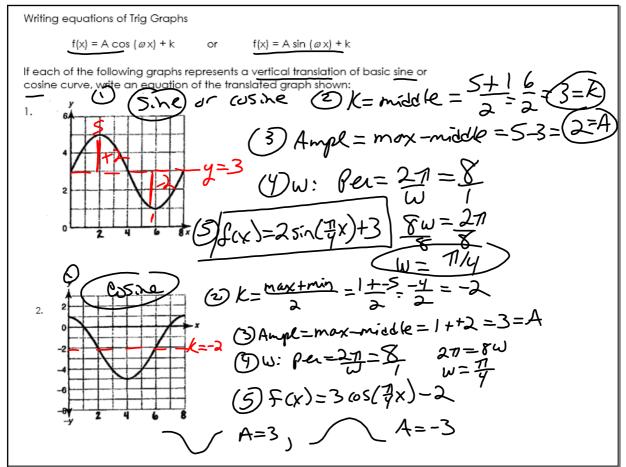
Cange [-105, -45]

Day 6: Writing Equations of Trig Graphs

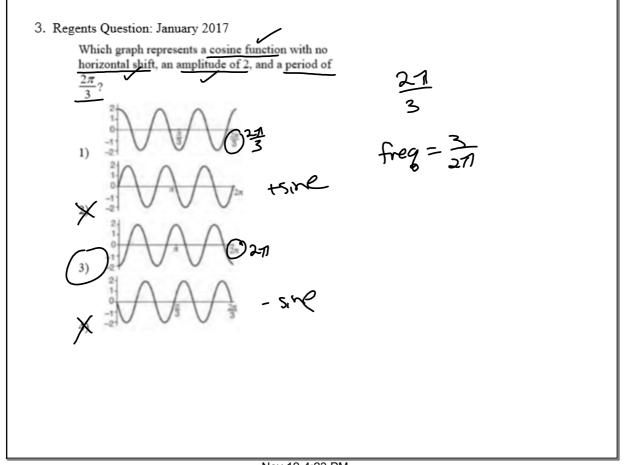
Feb 6-6:50 PM



Feb 6-6:51 PM

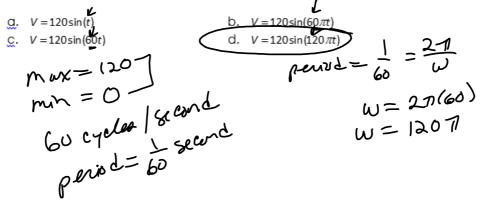


Feb 6-6:51 PM





4. The voltage used by most households can be modeled by a <u>sine function</u>. The maximum voltage is 120 volts, and there are <u>60 cycles every second</u>. Which equation best represents the value of the voltage as it flows through the electric wires, where t is the time in seconds?



Nov 12-4:24 PM

An athlete was having her blood pressure monitored during a workout. Doctors found that her maximum blood pressure, known as systolic, was 110 and her minimum blood pressure, known as diastolic, was 70. If each heartbeat cycle takes 0.75 seconds, then determine a sinusoidal model, in the form $f(t) = A \sin(Bt) + C$, for her blood pressure as a function of time t in seconds. Show the calculations that lead to your answer.

6 - per8-9 Writing Equations of Trig Graphs.notebook	January 17, 2020