Sinusoidal – Application Problems – Calculator Cheat Sheet

*Make sure you are in radian mode (Unless your problem is in degrees, then make sure your calculator is in degree mode)
- 83/84 – mode, radian
- Nspire – settings, settings, general, radian, make default, ok

*If you need to adjust your window
- 83/84 – window (adjust accordingly)
- Nspire – menu, window/zoom, window settings (adjust accordingly)

*Nspire – Do NOT use Scratchpad, use Documents

Given an x-value, find y:
- 83/84 – 2nd, calc, value ,type in value, enter
- Nspire – ctrl, +page, add calculator, f1(type in value in parenthesis)

To find a minimum or maximum:
- 83/84 – 2nd, calc, min or max, cursor to left of point – enter, cursor to right of point – enter, guess where you think min/max is located – enter
- Nspire – menu, analyze graph, min or max, move line to left of point – enter, move line to right of point – enter. You might need to grab the answer with the "hand" so you can read it better.

To find the zero(x-intercept):
- 83/84 – 2nd, calc, zero, cursor to left of intercept – enter, cursor to right of intercept – enter, guess where you think x-int is located - enter
- Nspire – menu, analyze graph, zero, move line to left of intercept – enter, move line to right of intercept – enter. You might need to grab the answer with the "hand" so you can read it better.

Given a y-value, find x:
- ✓ ALL – Graph the constant (horizontal line)
- 83/84 – 2nd, calc, intersect, enter, enter, guess where you think intersection is located - enter
- Nspire – menu, analyze graph, intersection, move line to left of intersection – enter, move line to right of intersection – enter. You might need to grab the answer with the "hand" so you can read it better.