

SECONDARY MATH 3 -- TERM 3 Sinusoidal Project

Name(s)	Point(s)
1. Draw a picture of your situation on your paper. Put Title on the Top.	_____/10
2. List Amplitude, Period, Vertical/Horizontal Shift(s), if you start at bottom, top or middle. Time for 1 cycle, and then cycles in 6 minutes.	_____/10
3. SHOW WORK TO SHOW HOW YOU GOT HOW MANY CYCLES IN 6min.	_____/20
4. Do a large graph on your paper. Make sure you put numbers on both your x and y axis, and label what your x & y axis stand for.	_____/20
5. Write the equation for your situation.	_____/20
6. Using backwards PEMDAS from video show work to solve ALGEBRAICALLY to get the first time at the height of 10inches/feet. (Talk to me if your graph does not get to a height of 10.) SHOW ALL WORK.	_____/20
5. Graph on the calculator. Change the window to an appropriate window so you can see 5-12 cycles. Have me initial off that I saw it and that it matches your graph on your paper.	_____/10
6. Use the equation to find the height at 4 seconds. Show that it matches on your graph. Label this point A on your graph.	_____/10
7. Use your graphing calculator to find the first 4 times your graph is 2 inches/feet above the ground. List them below. Draw the line $y = 2$ and show that the 4 times match your graph. ____seconds, ____seconds, ____seconds, ____seconds	_____/10
TOTAL SCORE	_____/130