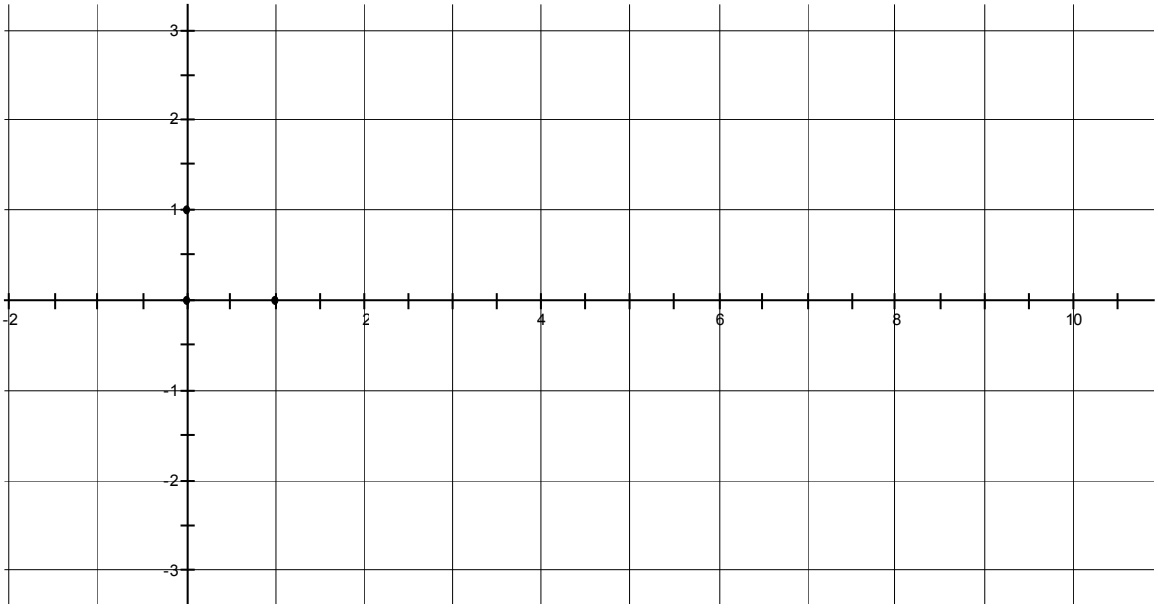
Handout Math 48C Mitchell Schoenbrun

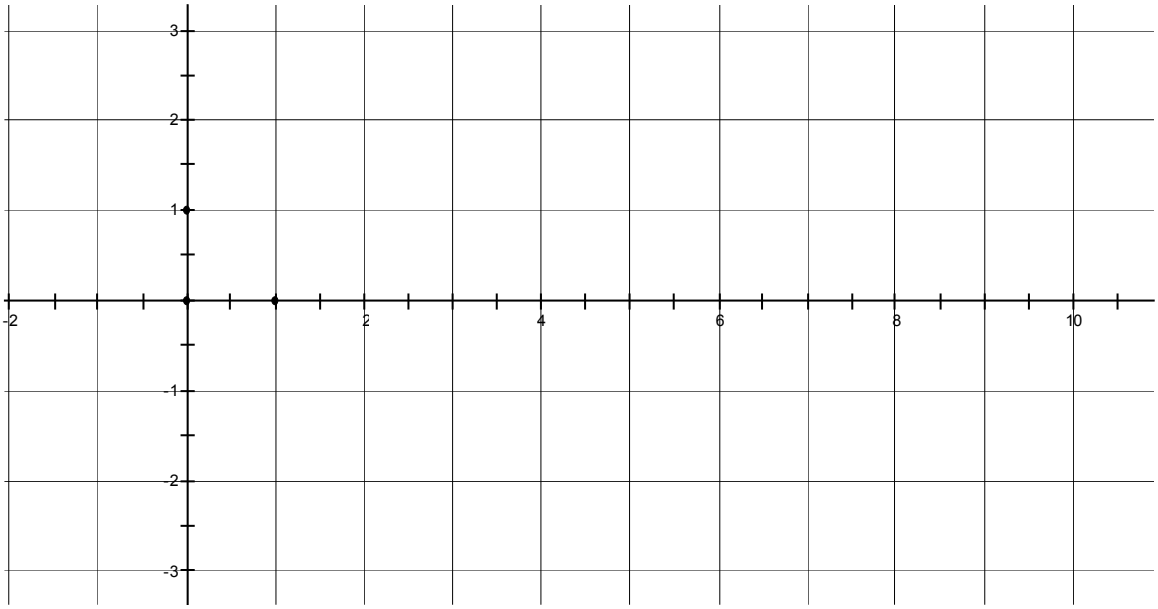
Graphing Sine and Cosine Functions

Graph the following functions by hand, then check your answers on your calculator.

1) $f(\theta) = 2\sin\left(2\theta - \frac{\pi}{2}\right) - 1$



2) $f(\theta) = -\cos\left(\frac{\theta}{2} + 1\right)$



3) An Even function is a function where $f(-\theta) = f(\theta)$

An Odd function is a function where $f(-\theta) = -f(\theta)$

Explain whether sine and cosine are even or odd functions.

Do all functions have to be even or odd?