For this quiz you must have a graphing calculator.

1. Write down the difference quotient, that is, the $m_{seq}$ formula, appropriate to finding the slope of the line tangent to the graph of

$$y = \cos(x)$$

at the point of tangency where $x = 2$.

2. Write down your answer to the previous problem in the “calculator form” you’d use to type it in to your calculator.

3. Now put your calculator into Radian Mode and graph your difference quotient in an appropriate range of $x$-values. Draw a picture of your calculator window. State the $x$-range you are using (so the grader can replicate your work).

4. By tracing on your graph, find an approximate value for $m_{tan}$: __________