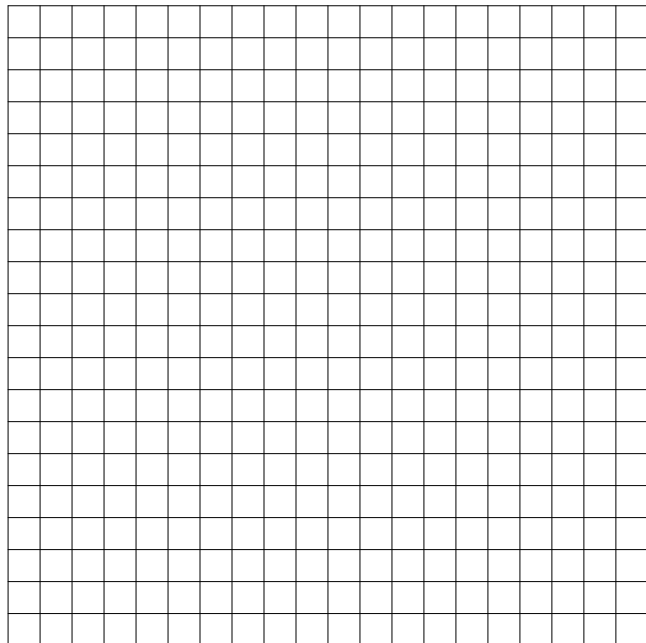


Calculus Class Worksheet #2 Unit 12 _____

In each of the following problems, you are given a function $y = f(x)$ and two values of x , $x = a$ and $x = b$. You are to find the length of the graph of $y = f(x)$ from the point $(a, f(a))$ to the point $(b, f(b))$. In each case, draw a graph showing the 'curve' from $x = a$ to $x = b$. Express your answers rounded to 3 significant figures.

1. $y = f(x) = 4x - x^2$; $a = -1$; $b = 3$.



2. $y = f(x) = \cos x$; $a = \pi/2$; $b = \pi$.

