Quiz 14

Name: _____

1. The density of nucleotides per nanometer along a strand of DNA is approx-
   imated by the density function $\rho(x) = 400 - 3x$, where x is the number of
   nanometers measured from one end of the DNA. For this problem, include
   all units of the quantities you calculate.

   (a) How many nucleotides are there in the first hundred nanometers of
       the DNA strand?

   (b) What is the average density of the nucleotides for the same piece of
       DNA?