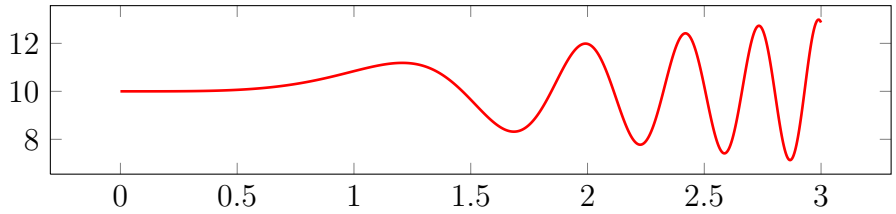
CISS240: Introduction to Programming
Quiz q1006

Name: _____ Score: ____

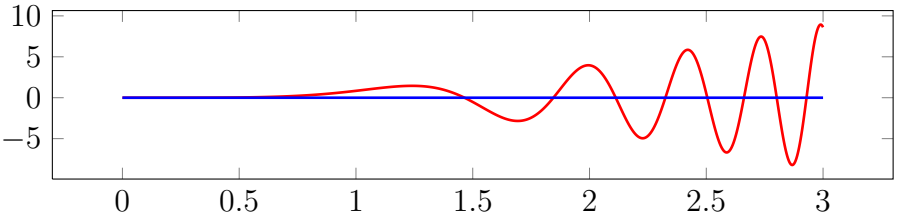
This is a closed-book, no C++ compiler, 5-minute quiz.

Q1. The following is the graph of $y = x^2 \sin(x^3) + 10$:



Using exactly 1000 rectangles, compute the area under the above curve from $x = 0.5$ to $x = 2.5$. The area of each rectangle must be computed using the method in the notes (i.e., use the left endpoint of the rectangle to determine the rectangle). The printout of the area must be in fixed point format with 5 decimal places. Skeleton code is provided.
Answer:

Q2. The following is the graph of $y = x^2 \sin(x^3)$:



Notice that there's a root at approximately $x = 1.7$. Use exactly 1000 equally spaced points from $a = 1.6$ to $b = 2.0$ to compute an approximation to this root. The printout of the value x of the root must be in fixed point format with 5 decimal places. Skeleton code is provided.
Answer: