Name ....
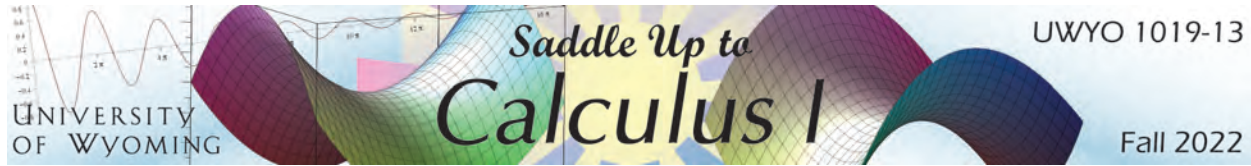
Quiz 1

Tuesday, August 16, 2022

Questions #1–5 are multiple choice; select the *best* response in each case (2 point each). Question #6 is short answer (5 points). Total value of questions: 15 points.

1. The most basic notion in all of calculus is the notion of
   (A) a limit.
   (B) an integral.

2. Which of the following types of functions are more important in business and finance, and in the life sciences?
   (A) exponential and logarithmic functions
   (B) trigonometric functions and their inverses

3. A derivative is
   (A) an average rate of change.
   (B) an instantaneous rate of change.

4. An integral is the total value of a quantity that accumulates at
   (A) a constant rate.
   (B) a variable rate.

5. Many people find it difficult to learn mathematics because
   (A) it requires memorizing arbitrary rules with no connection to the real world.
   (B) more than most subjects, learning is sequential: ideas are built on other ideas which are built on other ideas, and so on.

6. If you had a favorite number, what would it be and why?

In class I was asked about this.
Maybe 2625374126407687444
See the 5-minute video on my YouTube channel
"Interesting Numbers"... or check out the
"Mega Fav Number" videos on YouTube.