

Name:

Date:

Period:

Making The Exponentially Better Decision =)

The task: Select and provide mathematical evidence to determine which account is most appropriate for a given situation:

Step 1: Decide what you are saving for (pick one of the following)

- I want to buy _____ worth _____ (must be more than \$400)
- I want to have the most money possible by the time I am _____ years old (must be over 25!)

Step 2: Pick from the following three accounts to suit your needs:

Account 1:

Compounded quarterly with an initial investment of \$300 at a rate of 5%.

Account 2:

Compounded continuously with an initial investment of \$200 at a rate of 2.5%

Account 3:

Compounded continuously with an initial investment of \$150 at a rate of 4%

Your final product must have the following:

1. A function for each of the accounts you are deciding from.
2. Your decision about which account you would pick.
3. An explanation as to why you would pick your account using one of the following:
 - a. A table of values
 - b. A graph
4. Remember: You must explain why your choice is **BETTER THAN THE OTHER TWO!**