A. Find the compound amount at the end of 10 years on an original principal of $200 at 4%

1) compounded annually

2) compounded semi-annually

3) compounded quarterly

4) compounded continuously

B. What time is required to double a certain amount

1) compounded annually at 6%

2) compounded continuously at 6%

C. There are originally 1 000 bacteria in a culture, and 4 hours later there are 4 000. Find the rate of increase per hour of the bacteria.

D. In a certain chemical reaction, the original concentration of 0.03 is reduced to 0.01 in 4 minutes

1) What is the rate of decrease in concentration per minute?

2) What will be the concentration be in 10 minutes?

NAME: _____

Answer Key

- A.) $295.8
  - 2) $297.10
  - 3) $297.10
  - 4) $298.30
- B. 1) 11.9 years
  - 2) 11.55 years
- C. $r = 0.3467$
- D. 1) -0.2746
  - 2) 0.002