

Name _____

Homework 19

Section 5.1

1. (4) Use a calculator to approximate the following, where $f(x) = 4\left(\frac{1}{2}\right)^{t/3}$. Round your answers to the nearest 0.0001.

(a) $f(3)$

(c) $f(0.04)$

(b) $f(-6)$

(d) $f(11)$

2. (4) Suppose \$3400 is invested in an account that pays 5% interest, compounded semi-annually. How much is in the account at the end of 6 years?

3. (6) Art and Sally each invest \$7000 in an account that pays 6% interest. Art invests his money in an account that compounds interest annually and Sally invests in an account which compounds interest monthly. At the end of 10 years, how much more money is in Sally's account than Art's?

4. (6) Determine the equation of the exponential function whose graph is shown below.

