

Physics and Mathematics of Sustainable Energy

Homework Five

College of the Atlantic

Due May 2, 2014

1. You invest \$15,000. Assume your money grows at 4% annually.
 - (a) How much money do you have in ten years?
 - (b) How long would it take your money to double?

2. Someone will give you \$10,000 in ten years.
 - (a) What is the present value of this payment? Answer this question using discount rates of 5, 10, and 15%.
 - (b) Repeat the above analysis, but assume that the payment comes in 100 years and not 10 years.