ALG III 1/21/15 Exponential Functions Practice

Name:_____

1. Write the equation of the exponential function.









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2. Graph each exponential function.





$$f(x) = -\left(\frac{5}{2}\right)^x + 5$$



 $f(x) = 12(2)^{-x} - 6$



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3. The gross wastes generated in plastics, in millions of tons, from 1980 to 2003 can be approximated by the exponential function defined by

 $W(x) = 7.77 (1.059)^{x}$

where x=0 corresponds to 1980. Use this function to approximate the plastic waste amounts for 1985, 1995 and 2000.

4. Mrs. Nagel deposits \$2000 in a savings account that is compounded monthly at 3.2% interest. What will the account balance be in 15 years?

5. Mr. McCord deposits \$2000 in a savings account that is compounded quarterly at 3.6% interest. What will the account balance be in 15 years?