

Math 3 Advanced  
13.2 Exponential Decay

State the domain and range of an exponential function.

1.  $f(x) = \left(\frac{1}{2}\right)^x$

2.  $f(x) = -\left(\frac{1}{3}\right)^x$

3.  $y = \left(\frac{1}{2}\right)^x - 1$

4.  $y = -\left(\frac{1}{4}\right)^x + 3$

5.  $f(x) = 5^{-x}$

6.  $g(x) = -2^{-x}$

7.  $y = 2^{4-x}$

8.  $y = -3^{1-x}$

9.  $f(x) = \left(\frac{5}{6}\right)^x$

10.  $f(x) = -\left(\frac{2}{3}\right)^x$