

Use your graphing calculator to graph each of the following functions. Use your mathematical skills to determine the real characteristics of the function. Does your calculator show these features? Include detailed sketches.

1.  $y = 3x^{2/3} - x^2$

2.  $y = 0.075 \cdot e^{-13100x} - 0.075$

3.  $y = \sin x + 0.05 \sin(50x)$

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