1. Find each derivative via secant slope, factor, cancel, and limit.
   
   (a) $y = x^2$
   (b) $y = x^3$
   (c) $y = x^4$
   (d) $y = x^5$
   (e) $y = x^6$

2. Guess the derivative of $y = x^n$, where $n$ is some large positive integer.

3. Find the derivative for each of
   
   (a) $y = 17x^{42} - 10x^{21}$
   (b) $y = 5x^6 + 13x^4 - 12x + 17$
   (c) $y = 3x - 12$. 