18F: Derivatives of Exponential Functions Investigation

1. Given , use first principle to show that .
2. Evaluate  accurate to four decimal places using your GFC. Compare this value to .
3. Hence if , then what can you say about.
4. Given, use first principle to show that.
5. Evaluate  accurate to four decimal places using your GFC. Compare this value to.
6. Hence if , then what can you say about.

**Summary:   **

Examples) Find  for…

1. 2. 

3.  4. 

5.  6. 

1. Find the equation of tangent to the curve  at .