Math 101-Sec 03-Quiz 01

Name: _____ **Serial Number:**

1. Find the equation of the tangent line to the curve $f(x) = x^3$ at $x = 1$.

2. Use the Sandwich Theorem to find

$$\lim_{x \to 0} \left[\cos \left(\frac{\pi}{2} + x \right) \cos \left(\frac{1}{x} \right) \right].$$