

Math 212: Quiz 4

Name: _____

1) Let $f(x) = \frac{x}{x^2+1}$. Evaluate $f'(0)$.

2) Let $f(x) = (3 + \cos x) \sin x$. Evaluate $f'(\pi)$.

3) Evaluate the limit $\lim_{x \rightarrow 0} \frac{\sin(2x)}{\sin(3x)}$.