Quiz
Math 102, Term 172

NAME:
ID:

Problem 1. Find $\lim_{n\to\infty} n\left[\frac{1}{n^2+1^2} + \frac{1}{n^2+2^2} + ... + \frac{1}{2n^2}\right]$

Problem 2. Find the equation of the tangent line of $f(x) = \int_{\sin x}^{2e^x} \sqrt{4-t^2}\, dt$ at $x = 0$.