

Math 101-172-Sec.4 -Quiz #3

Name:

ID:

SR:

Question1: Find the point(s) on the curve $y = \frac{2x}{4+x^2}$ where the tangent line is horizontal.

Question2: Let $f(x) = \begin{cases} 2x - \cos^2 x, & x \leq 0 \\ 2 \tan x, & x > 0 \end{cases}$, find $f'(x)$.

Question3. Find the tangent equation to the curve $f(x) = \frac{\cos(x)}{1-\sin(x)}$ when $x = 0$