Name: ID: SR:

Question1: Find the tangent equation to the curve $f(x) = \sin(\sin(x))$ at the point when $x = \pi$.

Question2: If $f(x) = \sin^{-1}(2x + 1) + \sqrt{\tan^{-1}(x)}$, find the derivative of $f(x)$

Question3. If $y = \sqrt{x}e^{x^2}(x + 1)^{\frac{2}{3}}$, find $\frac{dy}{dx}$ when $x = 1$.