

Instructions: Show Your Work!

1. (5 pts) Find an equation of the tangent line to the curve
 $\sin(x + y) = 2x - 2y$
at the point (π, π) .
2. (5 pts) Use logarithmic differentiation to find dy/dx for
 $y = \sqrt{x}e^{x^2-x}(x+1)^{2/3}$
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