

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Find $\frac{dy}{dx}$ if $y = \sin(x) e^{-x} + \frac{\tan^{-1}(x)}{1+x^2}$

Exercise 2 (5 points)

Find $\frac{dy}{dx}$ if $x\cos(y) + y\cos(xy) = 1$

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