

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points) Find $\frac{dy}{dx}$ if $y = (x - x^3)^2 \tan^2(3x)$

Exercise 2 (5 points) Find an equation of the tangent line to the curve $y = \frac{\tan^{-1}(x)}{1 + x^2}$ at $(0, 0)$

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points) Find $\frac{dy}{dx}$ if $y = (2x + x^2)^3 \cot^3(4x)$

Exercise 2 (5 points) Find an equation of the tangent line to the curve $y = \frac{\sin^{-1}(x)}{\sqrt{1-x^2}}$ at $(0, 0)$