

Name _____

You have 10 minutes for this quiz.

1. (4 points) Find $\frac{dy}{dx}$ given that $\sec y = y^3 x^5$.

2. (3 points each) Find derivatives of the following functions.

(a) $y = \sin^{-1}(t^3 + 5)$

$$(b) \ y = \frac{(2x^3 + 5)^2 (5x + 1)^3}{\sqrt{x^2 + 1}}$$