

Math101 Calculus I Term 072

Quiz 3

Name:

ID #:

Section #:

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1. Determine $\lim_{t \rightarrow 0} \frac{3t - \sin 2t}{\tan t \cos t}$. [3 points]
2. Find $f'(t)$ if $f(t) = \tan^{-1}(\sin 2t)$. [3 points]
3. Find dy/dx if $y \cos(x^2) = x \sin(y^2)$. [4 points]

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1. Determine $\lim_{t \rightarrow 0} \frac{\sin 3t \cos t}{2t + \tan t}$. [3 points]
2. Find $f'(t)$ if $f(t) = \sin^{-1}(e^{2t})$. [3 points]
3. Find y' if $\sqrt{xy} = 2 \cos x \sin y$. [4 points]