

Quiz# 3

Name:

ID #:

Section #:

Serial #:

Q1. (3 points)

$$\frac{d}{d\theta}(\arctan(\cos \theta)) =$$

Q2. (3 points)

$$\lim_{t \rightarrow 1} \frac{\sin(t-1)}{t^2 + t - 2} =$$

Q3. (4 points)

Find a rule for $\frac{d^n y}{dx^n}$ if $y = \sqrt{3x}$.

With My Best Wishes

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Q1. (3 points)

$$\frac{d}{dt}(\arccos(e^t)) =$$

Q2. (3 points)

$$\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta + \tan \theta} =$$

Q3. (4 points)

Find $\frac{d^{57}y}{dx^{57}}$ if $y = x \sin x$.

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