THE UNIVERSITY OF AKRON
Theoretical and Applied Mathematics

Exerquiz Package
Quizzes with Points

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1. Quiz Environment

Start Answer each of the following. Passing is 100%.

1. (6pts) If $\lim_{x \to a} f(x) = f(a)$, then we say that f is...

☐ differentiable ☐ continuous ☐ integrable

2. (6pts) Name *one* of the two people recognized as a founder of Calculus.

3. (8pts) $\dfrac{\mathrm{d}}{\mathrm{d}x} e^{x^2} =$

End Score: Correct

Answers:

Points: Percent:

Solutions to Quizzes

Solution to Quiz: A function f is said to be continuous at $x = a$ if $x \in \text{Dom}(f)$, $\lim_{x \to a} f(x)$ exists and $\lim_{x \to a} f(x) = f(a)$.

End Quiz

Solution to Quiz: Isaac Newton and Gottfried Leibniz are the co-creators of Calculus. End Quiz

Solution to Quiz: First apply the rule for differentiating an the natural exponential, then apply the power rule:

$$\begin{aligned}\frac{d}{dx}\, e^{x^2} &= e^{x^2}\, \frac{d}{dx}\, x^2 \\ &= e^{x^2}\, (2x) \\ &= 2xe^{x^2}\end{aligned}$$

In the syntax of this document, `2*x*e^(x^2)`. End Quiz