

THE UNIVERSITY OF AKRON
Theoretical and Applied Mathematics

Exerquiz Package
Quizzes with Points

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1. Quiz Environment

Answer each of the following. Passing is 100%.

- (6^{pts}) If $\lim_{x \rightarrow a} f(x) = f(a)$, then we say that f is...
differentiable continuous integrable
- (6^{pts}) Name *one* of the two people recognized as a founder of Calculus.
- (8^{pts}) $\frac{d}{dx} e^{x^2} =$

Answers:

Points:

Percent:

Solutions to Quizzes

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

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