

Tests & Quizzes

Quiz 5.1

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Part 1 of 1 - Quiz 5.1

10.0 Points

Question 1 of 5

2.0 Points

Differentiability of a function at a point implies continuity at that point.

- ✓ ☐ True
☐ False

Answer Key: True

Question 2 of 5

2.0 Points

Let I be an interval, $g : I \rightarrow \mathbb{R}$ and let c be in the interior of I . If it is known that g has a local minimum at c and g is not differentiable at c , then we can conclude that $g'(c) = 0$.

- ✓ ☐ True
☐ False

Answer Key: False

Question 3 of 5

2.0 Points

The inverse function rule (Theorem 5.7) can be used to determine the derivative of a non-monotonic function.

- ✓ ☐ True
☐ False

Answer Key: False

Question 4 of 5

2.0 Points

Let I be an interval, $g : I \rightarrow \mathbb{R}$ and let c be in the interior of I . If it is known that g has a local minimum at c and g is differentiable at c , then we can conclude that $g'(c) = 0$.

- ✓ ☐ True
☐ False

Answer Key: True

Question 5 of 5

2.0 Points

$$\frac{d}{dx} \left[\frac{f(x)}{g(x)} \right] = \frac{\frac{d}{dx} f(x)}{\frac{d}{dx} g(x)} \text{ provided } \frac{d}{dx} g(x) \neq 0.$$

- ✓ ☐ True
☐ False

Answer Key: False

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