MATH2001-2020-SM2 > ₱♥ Tests & Quizzes

# **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.

<b>~</b>	$\bigcirc$	True
		False

## **Answer Key: True**

Question 2 of 5

2.0 Points

Let I be an interval,  $g:I\to\mathbb{R}$  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.



## 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.

<b>~</b>	$\bigcirc$	True
	$\bigcirc$	False

#### **Answer Key:** False

Question 4 of 5

2.0 Points

Let I be an interval,  $g:I\to\mathbb{R}$  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.



## **Answer Key: True**

Question 5 of 5

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

True
False

**Answer Key:** False

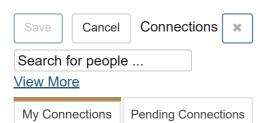
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