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_____ on E if \(\forall x_1, x_2 \in $(x_1 < x_2 \ Rightarrow f(x_1) \geq f(x_2))$). nonincreasing

[MTH341] A function \(f: E \rightarrow R\) defined on a set \(E \subset R\) is said to be ______ on E if \(\forall x_1, x_2 \in (x_1 < x_2 \Rightarrow f(x_1) < f(x_2)\)). increasing

[MTH341] Let \(f : R \rightarrow R\) be a function defined as $f(x) = (x^n \int x \ln R)$ where n is a fixed positive integer. What is the differentiability of f at any point \(x \in R. \)? f'(x) = \(nx^{n-1}))

[MTH341] Let a function f be defined on an interval I. If f is derivable at a point $(c \in I)$, then it is ______ at c.

continuous

[MTH341] Let f be a real function defined on an open interval [a, b]. Let c be a point of this interval so that a < c < b. The function f is said to be differentiable at the point x = c if ______ exists and is finite.

 $(\lim x \cdot f(c)) \{x - c\}$

[MTH341] A function \(f: E \rightarrow R\) defined on a set \(E \subset R\) is said to be ______ on E if \(\forall x_1, x_2 \in (x_1 < x_2 \Rightarrow f(x_1) > f(x_2)\)). decreasing

[MTH341] Let \(f: R \rightarrow R\) be defined as f(x) = x for \(0 leq x < 1\) and f(x) = 1 for \(x \geq 1\). When is f(x) continuous? x = 1

[MTH341] Let \(f: R \rightarrow R\) be defined as f(x) = x for \(0 leq x < 1\) and f(x) = 1 for \(x \geq 1\). When is f(x) not derivable? x = 1

[MTH341] What is the intervals in which the function f defined on R by $f(x) = (2x^3 - 30x^2 + 144x + 7 \text{ forall } x \text{ in } R)$ is decreasing? [4, 6]

[MTH341] What is the intervals in which the function f defined on R by $f(x) = (2x^3 - 30x^2 + 144x + 7 \text{ forall } x \text{ in } R)$ is increasing? (]-\infty, 4] and [6, \infty[\)

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