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nonincreasimg [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  $\langle f : R \rangle$  be a function defined as  $f(x) = \langle x^n \rangle$ \)?  $f'(x) = \langle (nx^{n-1}) \rangle$ [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 = cif exists and is finite.  $\frac{f(x) - f(c)}{x - c}$ [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) = 1for  $(x \neq 1)$ . 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) = 1for  $(x \neq 1)$ . When is f(x) not derivable? x = 1[MTH341] What is the intervals in which the function f defined on R by  $f(x) = (2x^3 - 1)$  $30x^2 + 144x + 7 \text{ (for all } x \text{ ) in } R$ \) is decreasing? [4, 6][MTH341] What is the intervals in which the function f defined on R by  $f(x) = \frac{2x^3}{}$  $30x^2 + 144x + 7 \text{ forall } x \in \mathbb{R}$  is increasing? \(]-\infty, 4] and [6, \infty[\)

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