

Quiz 3

Nov 06, 2014

Show all details.

1. State the Mean Value Theorem. Need not prove it.
2. Let $f(x) = x^{2/3}(3 - x)$. Find absolute max and min of f on $[-3, 3]$.
3. True or False? Explain.
 $|\cos x - 1| \leq |x|$ for all values of x .
4. Show that $e^x \geq 1 + x + x^2/2$ on $x \geq 0$.
5. Sketch the graph of $f(x) = x^4 - 4x^3 + 10$. Indicate all critical points and points of inflection, if any.

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