

Quiz 4

Nov 28, 2013

Show all details.

1. Write down Newton's method that can be used to find $\sqrt[3]{2}$. Need not give the numerical value.
2. Solve for $y(x)$ from the equation $y'(x) = \frac{1}{1+4x^2}$ with $y(0) = 1$.
3. Evaluate $\lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{n} e^{\frac{k}{n}}$.
4. State both parts of Fundamental Theorem of Calculus. Need not prove.
5. Evaluate $\frac{d}{dx} \int_1^{x^2} e^{t^2} dt$.

Quiz 4

Nov 28, 2013

Show all details.

1. Write down Newton's method that can be used to find $\sqrt[3]{2}$. Need not give the numerical value.
2. Solve for $y(x)$ from the equation $y'(x) = \frac{1}{1+4x^2}$ with $y(0) = 1$.
3. Evaluate $\lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{n} e^{\frac{k}{n}}$.
4. State both parts of Fundamental Theorem of Calculus. Need not prove.
5. Evaluate $\frac{d}{dx} \int_1^{x^2} e^{t^2} dt$.