Make-up Quiz 4

This is a preview of the published version of the quiz

Started: Nov 25 at 6:13am

Quiz Instructions

Question 1

1 pts

True or False: $\int_{-1}^{1}\left(5x^5-9x^9+\frac{\cos(x)}{(1+x^3)}\right)\mathrm{d}x=0$

Question 2

1 pts

True or False: If f and g are continuous on $[a,b]$, then $\left(\int_a^b[f(x)g(x)]\mathrm{d}x\right)^2=\left(\int_a^b f(x)\mathrm{d}x\right)^2\left(\int_a^b g(x)\mathrm{d}x\right)^2$.

Question 3

1 pts

Find the derivative of the function $f(x) = \int_{2x}^{3x+1} \sin(t^4)\mathrm{d}t.$

Question 4

1 pts

A particle moves along a line with velocity function $v(t) = t^2 - t$, where v is measured in meters per second. Find

(a) the displacement of the particle during the time interval $[0, 5]$.

Question 5

1 pts

A particle moves along a line with velocity function $v(t) = t^2 - t$, where v is measured in meters per second. Find

(b) the distance traveled by the particle during the time interval $[0, 5]$.

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