Quiz 3

Dec 19 2002, 10:10 AM - 11:00 AM
Show all your work

(1) (20 pts) State the Fundamental Theorem of Calculus (both parts).

(2) (20 pts) Compute $\frac{d}{dx}\int_x^{x^2-1}\sin(y)dy$.

(3) (20 pts) Calcluate $\int \frac{1}{2+x^2}dx$.

(4) (20 pts) Calcluate $\int \frac{1}{\sqrt{2x-x^2}}dx$.

(5) (20 pts) Calcluate $\int_1^2 (2x+1)\sin(x^2+x)dx$