

ID# _____ Name: _____

Quiz 4 MATH 102-T171

Serial# _____

Q1. Evaluate the integral: $\int \frac{(x-3)^3}{\sqrt{6x-x^2}} dx$

Q. 2. Find the value if the integral $\int_1^{\infty} \frac{dx}{x\sqrt{x^2-1}}$ converges.

Q3. Evaluate the integral: $\int \sqrt{1+\sqrt{x}} dx$.

(Use other side of paper)

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Q1. Evaluate the integral: $\int \frac{x^2 + 2x + 3}{x^2 + x - 2} dx$

Q. 2. Evaluate the integral: $\int \frac{1}{2 \sin x + 1} dx$

Q3. . Find the value if the integral $\int_0^1 \frac{x-1}{x^3-x} dx$ converges

(Use other side of paper)

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Q1. Evaluate the integral: $\int \frac{dx}{\sin x + \cos x + 1}$

Q. 2. Find the value if the integral $\int_0^2 \frac{dx}{\sqrt{|x-1|}}$ converges.

Q3. Evaluate the integral: $\int \frac{x+1}{x^3+x} dx$

(Use other side of paper)

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Q1. Evaluate the integral: $\int_0^1 \frac{x^{2/3}}{(1+x^{1/3})} dx$

Q. 2. Find the value if the integral $\int_1^{\infty} \frac{-e^{-\sqrt{x}}}{2\sqrt{x}(1+e^{-\sqrt{x}})} dx$ converges.

Q3. Evaluate the integral: $\int \frac{dx}{x^3 \sqrt{x^4-1}}$

(Use other side of paper)

ID# _____ Name: _____

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Q1. Evaluate the integral: $\int \frac{dx}{(4x^2 + 1)^2}$

Q. 2. Find the value if the integral $\int_{-2}^{14} \frac{dx}{\sqrt[4]{x+2}}$ converges.

Q3. Evaluate the integral: $\int \frac{\cos x dx}{(1 - \cos x)^2}$

(Use other side of paper)

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Q1. Evaluate the integral: $\int \frac{1}{\sqrt{x} + \sqrt[4]{x}} dx$

Q. 2. Find the value if the integral $\int_{-\infty}^{-1} \frac{dx}{\sqrt{-x(x-4)}}$ converges.

Q3. Evaluate the integral: $\int \frac{e^x dx}{(e^{2x} + 3e^x + 2)(e^x - 1)}$

(Use other side of paper)