

KFUPM
Mathematics & Statistics

Term 072
MATH 102

Date: 2/3/2008
Duration: 20 minutes

Quiz# 1

Name:

ID #:

Section 24

Serial #:

1. Using left endpoints method, evaluate $\int_0^4 (x^3 - 3x^2 + 2) dx$.

P.T.O. →

2. Evaluate $\int_1^4 \frac{3x^4 - 3x^2 - 7x + 18}{2x^3 - 6x^2 - 20x} dx$.

With My Best Wishes

Quiz# 1

Name:

ID #:

Section 25

Serial #:

1. Find $\int \frac{\sin x \cos^{3/2} x \sec^{7/2} x}{\csc^{3/2} x \sin^{5/2} x} dx$.

2. Evaluate $\int_{-1}^8 (5 - 4x^{1/3} + 3x^{5/4}) dx$.

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KFUPM
Mathematics & Statistics

Term 072
MATH 102

Date: 4/3/2008
Duration: 15 minutes

Quiz# 1

Name:

ID #:

Section 4

Serial #:

1. Without evaluating the integral, show that $8 \leq \int_{-2}^2 \sqrt{4+x^2} dx \leq 8\sqrt{2}$.

2. Evaluate $\int_2^7 5\ln(x^2 - 4) dx$.

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Quiz# 1

Name:

ID #:

Section 13

Serial #:

1. If f is continuous and g and h are differentiable functions, find a formula for $\frac{d}{dx} \left(\int_{g(x)}^{h(x)} f(t) dt \right)$. Show all your work.

2. Evaluate $\int_1^4 [x + \cot^2(3-x)] dx$.

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