

Instructor: Prof. A. Suci

Name: _____

MTH 1124

Calculus 2

Winter 2001

QUIZ 5

Instructions: Put your name in the blanks above. Show your work—if there is not enough room, use another sheet. Give either **exact** answers, or numerical answers, precise to **at least 3** decimals.

(1) [4 points] Compute: $\int \theta \sin(\theta/4) d\theta =$

(2) [4 points] Compute: $\int \arctan(3x) dx =$

(3) [4 points] Compute: $\int \frac{1}{t^2 - t - 6} dt =$

(4) [4 points] Compute: $\int_1^{e^2} x^2 \ln x dx =$

(5) [4 points] Compute: $\int_{\pi/2}^{\pi} \frac{6}{x^2 + 9} dx =$