

11/14/2003  
Dr. Lunsford

MA 171 Calculus A  
Quiz 12

Name: \_\_\_\_\_  
(20 Points Total)

I. Find the indicated integral. Neatly show all of your work, clearly indicate your answers. (3 points each - 12 total)

(a)  $\int_6^7 \frac{dx}{(x-5)^3}$

(b)  $\int 4 \sin(2\theta) d\theta$

(c)  $\int \frac{4}{1-3x} dx$

(d)  $\int_0^{\sqrt{7}} x \sqrt[3]{x^2+1} dx$

II. Find the indicated integral. Neatly show all of your work, clearly indicate your answers. (4 points each - 8 total)

(a)  $\int x^5 \sqrt{x^3+1} dx$

(b)  $\int_0^1 \frac{t^2}{e^{t^3}} dt$