

MT 1810 Calculus II
U substitution

Name _____

Evaluate the following integrals.

Use u substitution to evaluate the following integrals:

a. $\int x^2 \sqrt{x^3 - 5} dx =$

$u =$
 $du =$

b. $\int \frac{x}{x^2+3} dx =$

$u =$
 $du =$

c. $\int \frac{1}{x \ln x} dx =$

$u =$
 $du =$

d. $\int (\cos x)^3 \sin x dx =$

$u =$
 $du =$

e. $\int \sin \theta e^{\cos \theta} d\theta =$

$u =$
 $du =$
