Calculus Section 4.5 Change of Variables for Integration  
-Use a change of variables to evaluate a definite integral

Homework: page 302 #’s 47-49, 57, 58, 67, 68

When you use u-substitution to evaluate a definite integral, you must also change the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_before you can evaluate the integral.

**Change of Variables for Definite Integrals**If the function u = g(x) and du = g’(x)dx, then   
So, the new limits of integration are found by substituting a and b into the u-function.

**Examples)**1)  2) 

**When there are extra variables not found in du  
Examples)**1)  2)