

Quiz 6  
6/21/2024

Name: \_\_\_\_\_

1. Let  $x = -u^3$  and  $y = u^2v + v$ . Find and simplify the Jacobian  $\left| \frac{\partial(x,y)}{\partial(u,v)} \right|$ .

2. Evaluate  $\int_C xy \, ds$  where  $C$  is the straight line segment from  $(0, 1)$  to  $(3, 5)$ .