

Panel 1

Quiz #8

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

① Find potential for  $F(x,y) = \langle y \cos(x) + 2xy, \sin(x) + x^2 \rangle$

1

Panel 2

② Let  $f(x,y) = x^2y$  and  $\vec{r}(t) = \langle 2t, 3t-1 \rangle, t \in [0,1]$

a)  $\int_C f(x,y) ds$

b)  $\int_C f(x,y) dx$

c)  $\int_C f(x,y) dy$

2