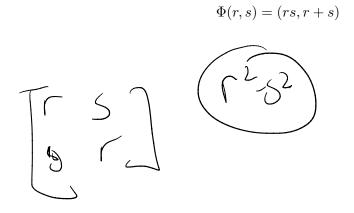
"QUIZ" for Lecture 16

Tayel Raza NAME: (print!)

Section:

## E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q16FirstLast.pdf) ASAP BUT NO LATER THAN Nov. 2, 8:00pm

1. Compute the Jacobian of the transfomation



**2.** Let  $\mathcal{D} = \Phi(\mathcal{R})$  where  $\Phi(u, v) = (u + v, v^2)$  and  $R = [0, 6] \times [1, 2]$ . Calculate

$$\int \int_{\mathcal{D}} y \, dA \quad .$$

(Note: it is not necessary to compute D).