

No. ....

Date

Quiz 1b.

Q.1.

$$x = rS$$

$$y = r + S$$

$$\begin{vmatrix} \frac{dx}{dr} & \frac{dx}{dS} \\ \frac{dy}{dr} & \frac{dy}{dS} \end{vmatrix} = \begin{vmatrix} S & r \\ 1 & 1 \end{vmatrix} = S - r$$



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$$\text{Q7. } J = (xu)(yv) - (xv)(yu) \\ = zv$$

$$\therefore \iint_D y \, dA$$

$$= \iint_R y \cdot J \, dA$$

$$= \int_0^6 \int_1^2 v^2 \cdot zv \, dv \, du$$

$$= \int_0^6 \left. \frac{v^4}{2} \right|_1^2 du$$

$$= 45$$



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