9.9.

$$\int_{\gamma} (x^3 - x^2 y)dx + xy^2 dy = \{\text{Greens formel}\} =$$

$$= \iint_D \left(\frac{\partial}{\partial x}\left(xy^2\right) - \frac{\partial}{\partial y}(x^3 - x^2 y) \right) dxdy =$$

$$= \iint_D \left\{ y^2 - (-x^2) \right\} dxdy =$$

$$= \begin{cases} \text{Polära} \\ \text{koordinater} \end{cases} = \iint_{D_{r\theta}} r^2 r\,dr\,d\theta = 2\pi \cdot \frac{2^4}{4} = 8\pi$$

SVAR:

$$\int_{\gamma} (x^3 - x^2 y)\,dx + xy^2\,dy = 8\pi$$