

9.39.

$$\int_{\gamma} \left( \sqrt{x^2 - y} + \frac{x^2}{\sqrt{x^2 - y}} \right) dx - \frac{x}{2\sqrt{x^2 - y}} dy =$$

$$\gamma : x = y^2, (1, -1) \quad (4, -2)$$

$$= \int_{\gamma} d(x\sqrt{x^2 - y}) = \left[ x\sqrt{x^2 - y} \right]_{(1, -1)}^{(4, -2)} = 4\sqrt{18} - \sqrt{2} = 11\sqrt{2}$$

SVAR:

$$\int_{\gamma} \left( \sqrt{x^2 - y} + \frac{x^2}{\sqrt{x^2 - y}} \right) dx - \frac{x}{2\sqrt{x^2 - y}} dy = 11\sqrt{2}$$