

Quiz 23 (Problems)

1. Evaluate $\oint_C (3x^2 - 3x^2y^2)dx + (3x^3y + 2y^4)dy$ where C is the boundary of the region bounded below by the semicircle $y = -\sqrt{9 - x^2}$ and above by the x-axis.

Quiz 23 (Answers)

1. (Math-252 Quiz 23)

$$\int_{-3}^3 \int_{-\sqrt{9-x^2}}^0 15x^2y \, dy \, dx = -486$$