Line, Surface, Volume Integrals
(Griffiths Chapter 1)

Line, surface, volume integrals

Question 1. Integral along a parabola
Evaluate the line integral \( \int (y^2 \, dx - 2x^2 \, dy) \) along the parabola \( y = x^2 \) from the point \((0,0)\) to the point \((2,4)\).

**Assigned SP08**
**Assigned FA08**

**Instructor notes:** Given as math pre-test.