

EG02041 Advanced Mathematics

Feedback Quiz (5): Functions of Several Variables & First-Order Differential Equations

Total Points: 10

Name:

ID:

1. **Evaluate:** $\int_0^1 \int_0^1 2y \, dx \, dy$

2. **Evaluate:** $\int_0^1 \int_{x^2}^x (x + y) \, dy \, dx$

3. **Exercise:** Solve $f'' = x^3 - x$ given that $f(2) = 0$ and $f'(2) = -1$.