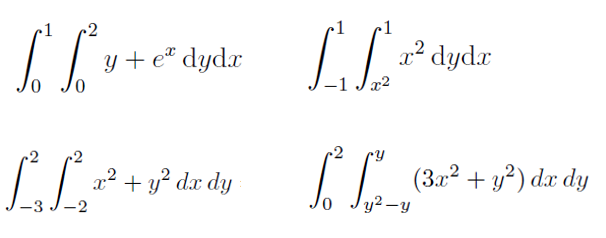
**Tutorial problems-8**

1. Calculate
2. Evaluate the following integrals:

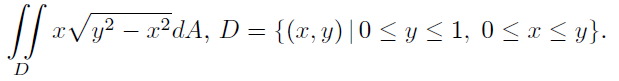


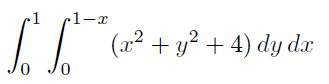
1. Let be the region described as .

Calculate .

1. Evaluate the integral , where D is the triangle with vertices

1. Evaluate the integral , where P is the parallelogram with vertices , , , .
2. Evaluate:





1. Sketch the regions of integration of the following:
2. Sketch the region of integration and evaluate the following integral:
3. Find the following integrals by first interchanging the order of integration:

1. Evaluate the following integral by first interchanging the order of integration:
2. Evaluate the integral: