

Math 201-152- Quiz 4

Name \_\_\_\_\_ Section \_\_\_ Id \_\_\_\_\_  
Serial# \_\_\_\_\_

Q1) For the integral  $\int_0^2 \int_0^{4-y^2} y \, dx \, dy$

- Describe the region of integration
- Draw the region of integration
- Change the order of integration.

Q2) Evaluate using polar coordinates  $\int_R e^{(x^2+y^2)} dA$ , where  
 $R$  is the region bounded by  $y = 0$ ,  $y = \sqrt{1-x^2}$