

MATH 201.1 (091)

Quiz 5 (Chap. 15.3-8)

Duration: 20mn

Name:

ID number:

1.) (5pts) Evaluate $\int_0^1 \int_{\sin^{-1}y}^{\pi/2} \cos x \sqrt{1 + \cos^2 x} dx dy$.

2.) (5pts) Evaluate $\iiint_U \sqrt{x^2 + y^2 + z^2} dV$, where U is the solid that lies between the spheres $x^2 + y^2 + z^2 = 4$, $x^2 + y^2 + z^2 = 9$ and above the xy -plane.