MA261 - Quiz 6 - Summer 2016

Name:			
manne.			

Directions: Please show all your work leading to your answers. Having some correct work with an incorrect answer will earn you partial credit.

- 1. Use the methods from this class to find the surface area of the part of the paraboloid $z = 9 x^2 y^2$ that lies above the xy-plane. (This just means that you should not realize it as a surface of revolution.) (10 points)
- 2. Write down, but do not evaluate, an iterated integral that gives the value of

$$\iiint\limits_E x^2 y\,dV$$

where E lies below the plane z = x and above the triangular region with vertices (0,0,0), (1,0,0) and (0,1,0). (10 points)