

MA 2733

Worksheet 11 – November 12, 2014

Name \_\_\_\_\_

1. (a) For the surface  $z = x^2 - xy + y^2$ , graph several traces parallel to the  $xz$ -plane, several traces parallel to the  $yz$ -plane, and (slightly harder) several traces parallel to the  $xy$ -plane.

- (b) Using your traces, sketch and/or describe the resulting surface.

2. (a) For the surface  $z = x^2 + \sin y$ , find several traces parallel to the  $xz$ - and  $yz$ -planes. (You might not be able to find a good description of the traces parallel to the  $xy$ -plane here.)

- (b) Using your traces, sketch and/or describe the resulting surface.