

MATH 201.5 (082)

Quiz 5- Sections 14.8

Duration: 15mn

Name:

ID number:

1.) Use Lagrange multipliers to find the maximum and minimum values of the function subject to the given constraint

$$f(x, y, z) = 8x - 4z, \quad x^2 + 10y^2 + z^2 = 5.$$