

MATH 201.4 (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

$$f(x, y, z) = 2x + 6y + 10z; \quad x^2 + y^2 + z^2 = 35.$$