Calculus III Quiz 3

Don't forget to	write down	clearly your	Name:

and Net Id:

1. Multivariable functions (5 points). Find the domain and range of the function $f(x, y, z) = \ln(e^2 - x^2 - y^2 - z^2)$.

2. Partial derivatives (5 points). Compute the partial derivative f_y of the above function in Problem 1.