

MATH 116 QUIZ 4

Surname\ Name:

ID:

Problem. Let function $z = f(x, y)$ be defined by the equation

$$e^{x+z} + y^2 + z = 2$$

and $f(0, 1) = 0$.

(a) Find the gradient of function $f(x, y)$ at the point $P(0, 1)$.

(b) Find the linear approximation of function $f(x, y)$ at the point $P(0, 1)$.