

MATH 102-15 QUIZ 4: Tuesday, March 7th 2017

Name and Surname:..... ID Number:.....

Question 1 (5 pts): Find $\frac{\partial z}{\partial x}$ and $\frac{\partial z}{\partial y}$ if $yz + x \ln y + 1 = z^2$.

Question 2 (5 pts): Find the direction in which the directional derivative of $f(x, y) = \sin xy$ takes the maximum value at $P(1, 0)$.