

MATH 243: SECTION 14.3 GROUPWORK

- (1) Calculate f_{xy} and f_{yx} for $f(x, y) = xe^{xy}$ and check they are equal.
- (2) Calculate all first partial derivatives of the function $f(x, y, z) = xz \ln(y + yz) + x^2y^2$.
- (3) Determine the domain of $f(x, y) = x^y$ and calculate f_{xx} and f_{yy} .