1. (5 points) Find the derivative of \( f(x, y) = (x^2 y + e^x, \sin xy) \).

2. (5 points) Find the second partial with respect to \( x \) and \( y \) of \( f(x, y)xy \), where \( f \) is unspecified.

Bonus: First of a 4 part series on mammals: Name a mammal of the African savannah.