1. (5 points) Find the derivative of \( f(x, y, z) = (xyz + \ln z, ze^y + \arctan x). \)

2. (5 points) Let \( D \) be the region bounded by the \( y \)-axis and the parabola \( x = -2y^2 + 8. \) Set up the integral \( f(x, y) \) both ways.

Bonus: Second of a 4 part series on mammals: Name a barnyard animal.