1. Find the derivative of each of the following functions:
   a) \( f(x) = (x^2 + 4)^6 \)
   b) \( g(x) = \ln(\sin(x)) \)
   c) \( h(x) = e^{\tan(x)} \)

2. Find \( y' \) implicitly: \( x^2 + xy + y^2 = 5 \)

3. Find an equation of the tangent line to the curve \( x^2 + 2y^2 = 9 \) at the point (1,2).