MATH 101 Quiz#5,

Student's Name: _____ ID: ____ Serial No: _____ Q.No.1:- Find dy/dt for $y = \ln(\sqrt{7t^2 - 1}/e^t)$

Q2. The area of a circle is decreasing at a rate of $8\pi/9$ cm²/sec. At what rate is the radius of the circle changing when the area is $\pi/9$ cm²?

Q.No.3:- $f(x) = x^3$. Find $df^{-1}(64) / dx$ without finding $f^{-1}(x)$.