You have 25 minutes to do this quiz. You may not use any books or notes while you do the quiz nor discuss the quiz with anyone. There are questions on the other side too.

1. Draw the contour lines (level sets) for the function
   \[ f(x, y) = c \text{ for } c = 1, 4, 9 \text{ for the function } f(x, y) = \frac{x^2}{4} + \frac{y^2}{9}. \]

2. For \( f(x, y) = x^2 + 3xy^3 + \sin(x\pi) \) and \( x(t) = 2t - 1 \) and \( y(t) = 3t^2 + 2t \), find \( \frac{\partial f}{\partial t} \) and evaluate this when \( t = 1 \).