

Course code: MTH 104

Course Title: Calculus and
analytical geometry

Assignment No 2

Q1 (a) Find the Slope of
the curve at given points

$$(x^2 + y^2)^2 = (x - y)^2 \text{ at } (1, 0)$$

also find equation of
tangent and normal.
at $(1, -1)$

Q2:

Find $\frac{dy}{dx}$

$$y = \left(1 + \tan^4 \left(\frac{t}{12} \right) \right)^3$$