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MATRIC NUMBER: 19/ENG03/003

MATH 102 ASSIGNMENT

29] Shope of 2 24] 12-14/2-122+24y-55=0 12-14/2-122+24y-55=0 12-14/2-122+24y-55=0 12-14/2-122+24y-55=0

ADENOTE ADEDATO JOSHUA CWILENGINEERING 19/6NG03/003 1) Equation of circle=x2+y2-5x-y+4=0 = x1=1 y1=0

$$(2y-1) dy = 5-2x$$

$$\frac{dx}{dx} = \frac{5-2x}{2y-1} = m = \frac{5-2(1)}{2(0)-1} = \frac{5-2}{0-1} = \frac{3}{-1} = -3$$

$$y-y_1 = m(x-x_1)$$

$$y = -3xt3$$

@ Equation of will = x2+y2-12x-12y+47=0. x1=1 y1=0

$$(2y-12)\frac{dy}{dx} = 12-2x$$

$$\frac{dx}{dx} = \frac{12-2x}{2y-12} = m = \frac{12-2(1)}{2(0)-12} = \frac{12-2}{9-12} = \frac{50}{40} = \frac{-5}{6}$$

4) chy = -2x-29
4) chy = -2x-29
5 lope of target at pt(xryr)
= -2x-29 7 slope of target at pt(xryr) The contraction of arcle = $\chi^2 + y^2 - 8\chi + 14y + 40 = 0$ $\chi_1 = 1$ $\chi_1 = 0$ The contraction of arcle = $\chi^2 + y^2 - 8\chi + 14y + 40 = 0$ $\chi_1 = 1$ $\chi_1 = 0$ $8\chi^2 + 8\chi$ $(8y^2)$ (2y+14) $dy = 8-2\chi$ $d\chi$ $d\chi$ $\frac{dy}{dt} \quad y - y_t = m(x_t - x_t)$ y-0=3(x-1) $y = \frac{3x}{7} - \frac{3}{7}$ $y = \frac{3x^{-3}}{7}$ 74=32-3 7y-3xt3=0