

KFUPM--Term 171

Math 201

Quiz # 1(a)

Time: 20 minutes

Date: 10-10-2017

Name	ID #	Sr #	Sec.	Marks:- /6
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Q 1. Find the area of surface generated by revolving the parametric curve C: $x = \ln(\sec t + \tan t) - \sin t$, $y = \cos t$; $0 \leq t \leq \pi/3$, about x - axis.

Q2. Sketch the polar curve: $r^2 = 4 \cos \theta$.

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Quiz # 1(b)

Time: 20 minutes

Date: 10-10-2017

Name	ID #	Sr #	Sec.	Marks:- /6
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Q 1. Find the length of the parametric curve $C : x = \ln(\sec t + \tan t) - \sin t, y = \cos t; 0 \leq t \leq \pi/3$.

Q2. Graph the set of points whose polar coordinates (r, θ) satisfy the conditions:

(i) $\theta = -\frac{\pi}{4}, 0 \leq r \leq 3$ (ii) $\frac{\pi}{3} \leq \theta \leq \frac{2\pi}{3}, -2 \leq r \leq 0$ (iii) $0 \leq \theta \leq \frac{\pi}{3}, r \leq 1$.