National University of Sciences & Technology School of Electrical Engineering and Computer Science Department of Basic Sciences

MATH-243: Vector Calculus (3+0): BEE-2k20-C Fall 2021

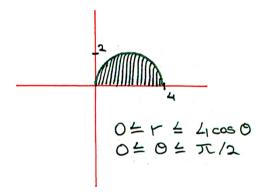
Activity # 1	
Maximum Marks: 5	Instructor: Dr. Naila Amir
Date: 29 – 09 – 2021	Duration: 10 Minutes
Name: Muhammad Umer	CMS ID: 345834

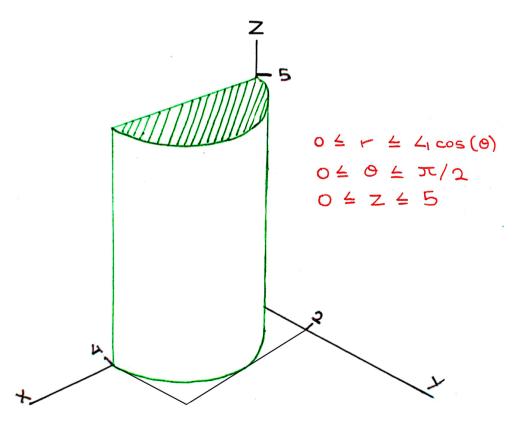
Question:

Sketch the solid described by the following inequalities:

$$0 \le r \le 4\cos\theta$$
; $0 \le \theta \le \frac{\pi}{2}$; $0 \le z \le 5$.

To get a basic sketch of the desired inequalities in space, we first draw the base on the my-plane that can later be scaled upwards in tive z-anis direction.





Where the highlighted sections imply that it is a solid cylinder rather than a hollow one; in case of an equality