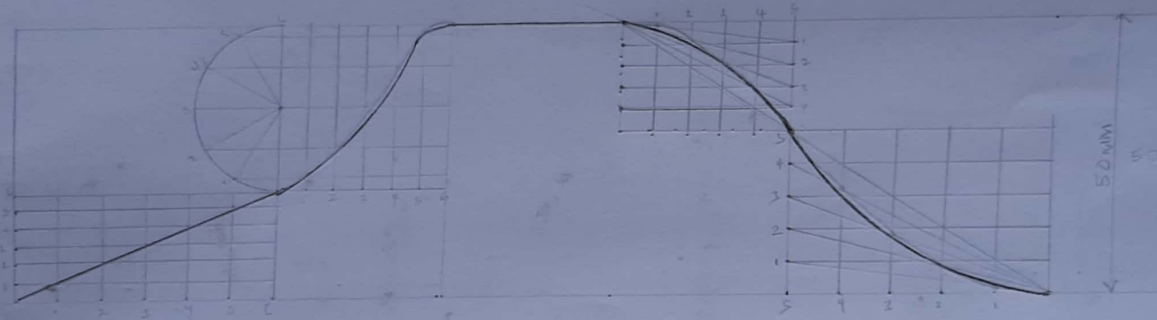
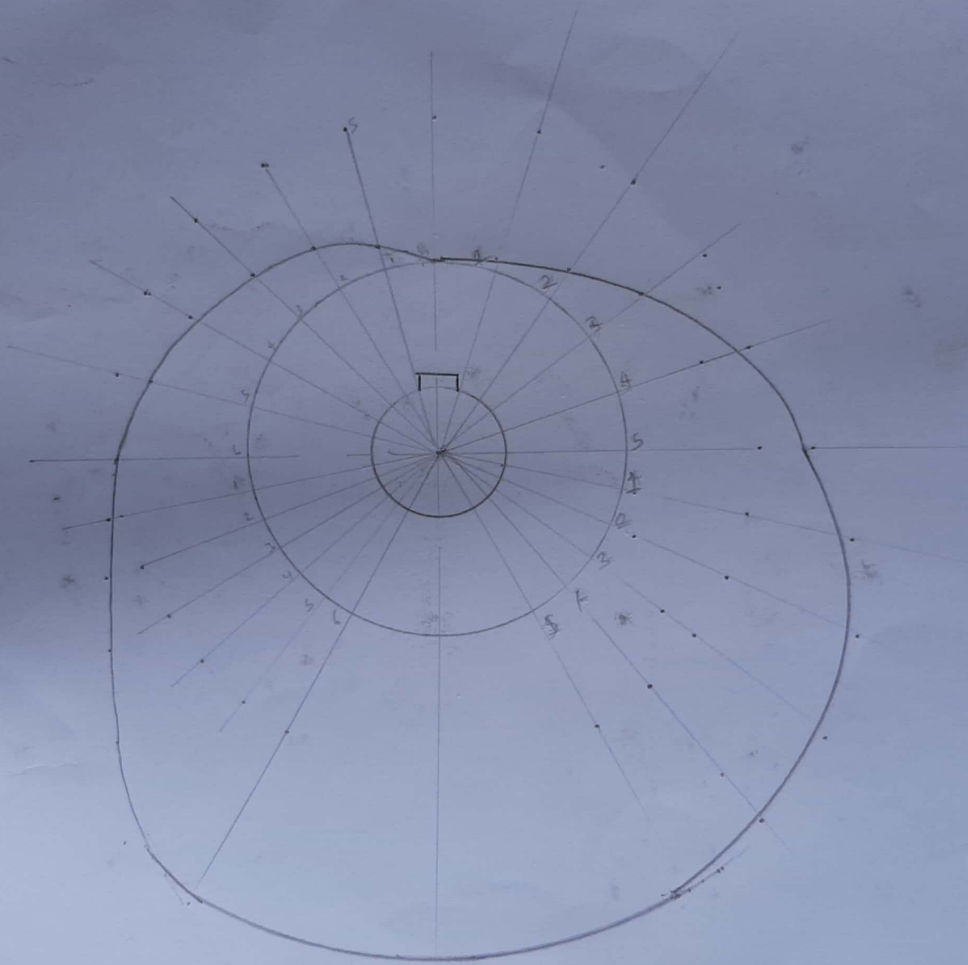


ALE - ALABA OLUWASEUN
19/ENG 06 / 064
MECHANICAL



NAME	ALE-ALABA OLUWASEUN
MATRIC NO	19/ENG06/064
DEPT	MECHANICAL
TITLE	CAM AND FOLLOWER
DATE	28-04-2020



NAME: ALE — ALABA OLUWASEUN

MATRIC: 191EN G 061064 DEPT: MECHANICAL

Minimum radius = 30mm

$$\therefore 2\pi R = 2 \times \pi \times 30 = 188.5 \text{ mm}$$

$$\frac{90}{360} \times 188.5 = 47.125 \text{ mm} \rightarrow \text{uniform Velocity (rises)}$$

$$\frac{60}{360} \times 188.5 = 31.417 \text{ mm} \rightarrow \text{(rises) Simple harmonic motion}$$

$$\frac{60}{360} \times 188.5 = 31.417 \text{ mm} \rightarrow \text{Dwell period}$$

$$\frac{60}{360} \times 188.5 = 31.417 \text{ mm} \rightarrow \text{(falls) uniform acceleration}$$

$$\frac{90}{360} \times 188.5 = 47.125 \text{ mm} \rightarrow \text{(falls) uniform retardation}$$