School:Labasa Sangam (SKM) College
Subject: Technical drawing
Due Date: 6th September 2021

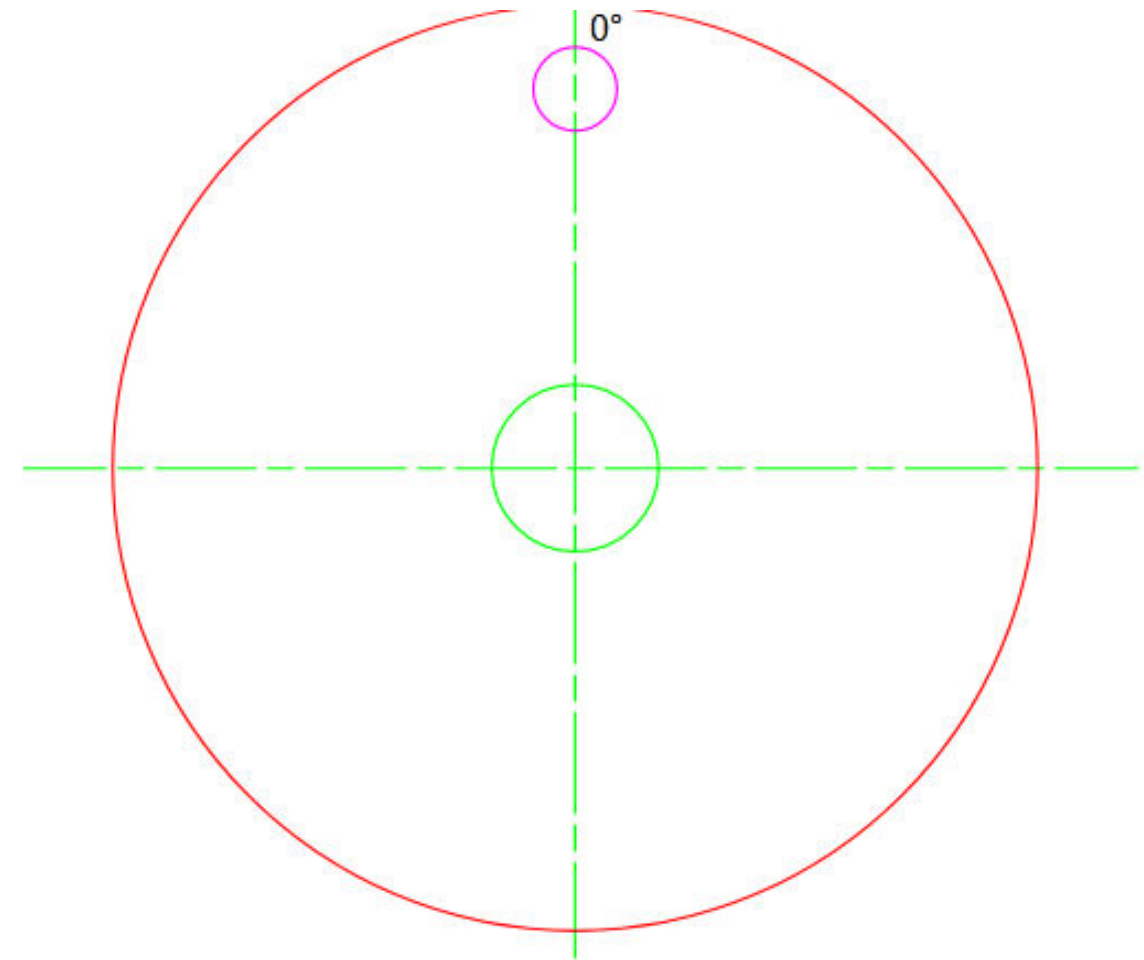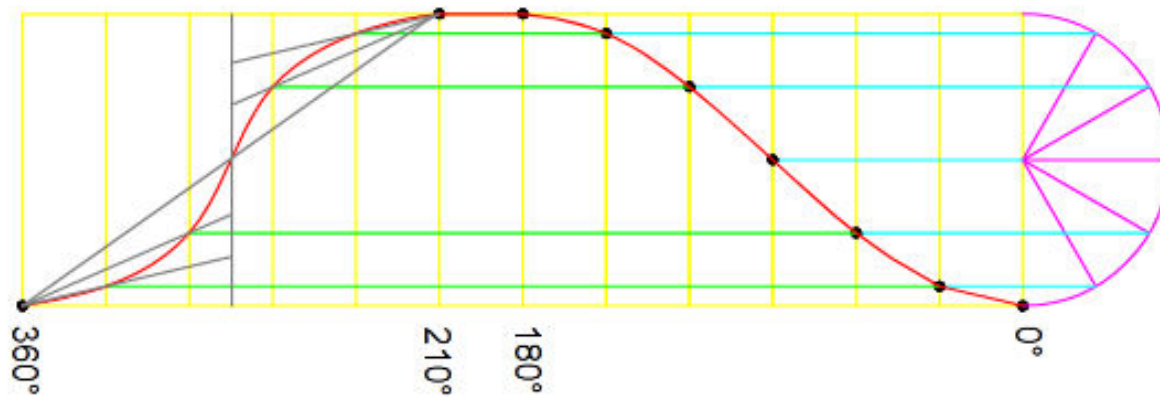Year/Level:12C/D/E   Student Name:_____
Week: 7
Date:16th-20th August

Question:1

Given: A displacement graph of a Radial Plate Cam for a Flat and Roller follower.
Required: Construct a simple Harmonic motion curve to lift 35mm in 180°, high dwell for 30° shown by a straight line
        Acceleration and Retardation curve, to fall 35mm to the base line. The Shaft diameter is 10mm
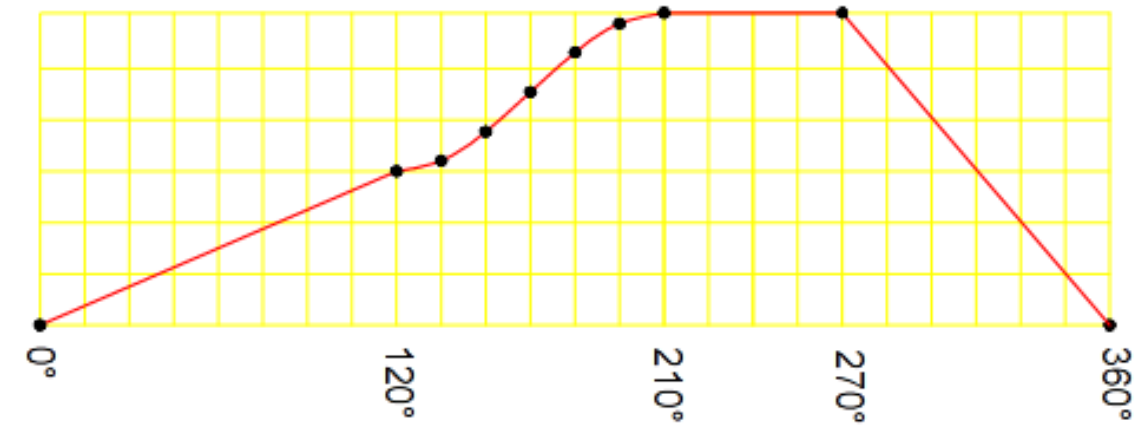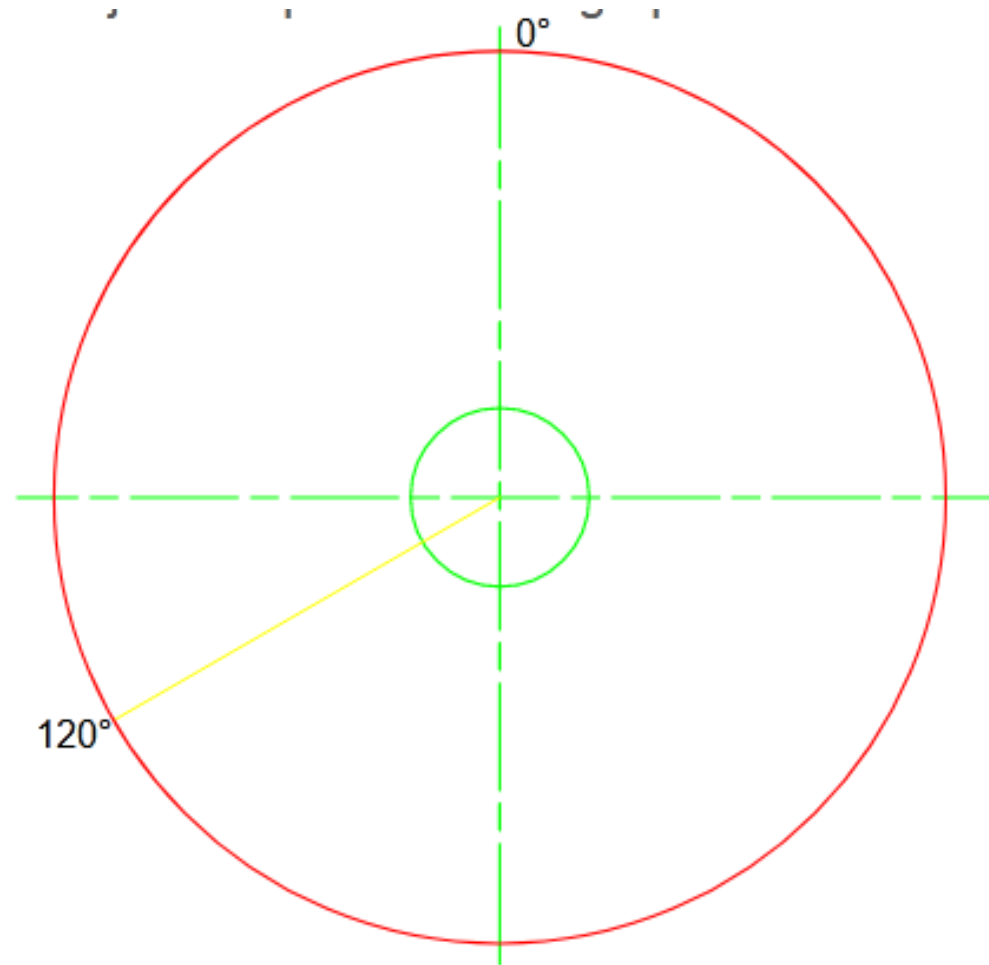
Question :1			
1	Accuracy-correct division for each motion	5	
2	Accuracy –correct shape for diff motions	5	
3	Correct method used for diff motions	4	
4	Correct line work	1	

Question:2

Given: A displacement graph of a Radial Plate Cam.

Required: Project the points on the graph to the circle to draw the outline of the Cam which will only be suitable for a knife edged follower.
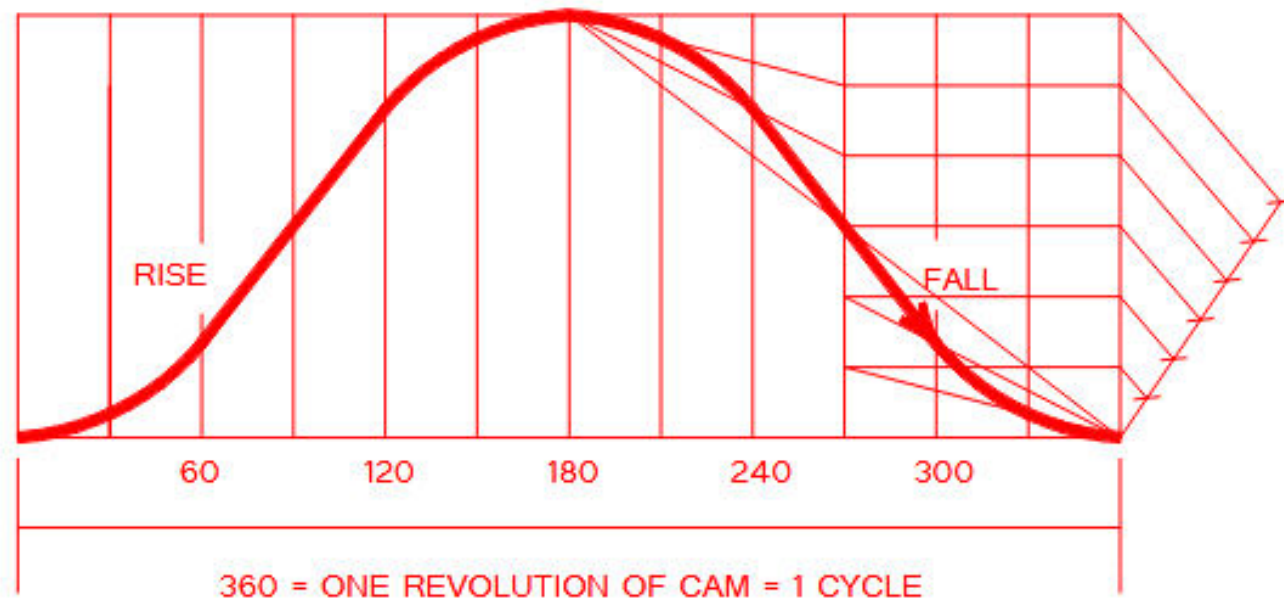

Question :2			
1	Accuracy-correct division for each motion	5	
2	Accuracy –correct shape for diff motions	5	
3	Correct method used for diff motions	4	
4	Correct line work	1	

15

Question:3

Given: The requirements of a Cam.
Required: Draw the cam plate using the performance graph given below

RISE   FALL

60   120   180   240   300

360 = ONE REVOLUTION OF CAM = 1 CYCLE

Question :3			
1	Accuracy-correct division for each motion	5	
2	Accuracy –correct shape for diff motions	5	
3	Correct method used for diff motions	4	
4	Correct line work	1	