Tutorial # 5: CAMS

Q1. In a disc cam-follower mechanism, the follower rises with constant acceleration for 25 mm and then rises with constant deceleration for the next 25 mm, the total lift being 50 mm. The velocities at the beginning and at the end of the rise period are zero and the cam rotates through 120^{o} during the rise period. Find out the displacement function during the rise.

Q2. The reciprocating radial follower of a plate cam is to rise 40 mm with simple harmonic motion in 180^{o} of cam rotation such that velocity at the start and end of rise stage is zero. Compute the displacement function.