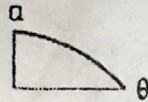
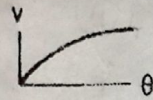
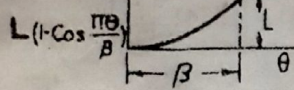
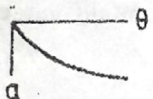
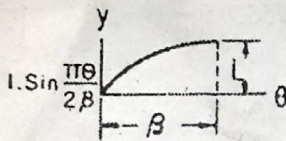


P-1, H-1, H-2, H-5 - Rise - C-1, C-2, C-5

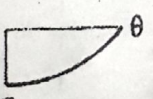
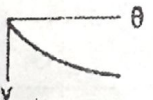
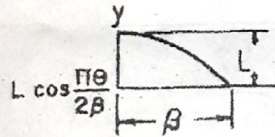
P-2, H-3, H-4, H-6 - Fall - C-3, C-4, C-5



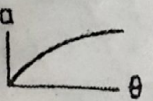
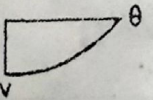
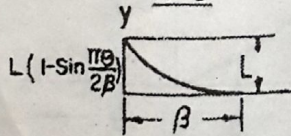
H-1



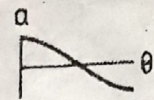
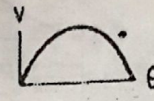
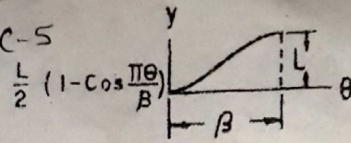
H-2



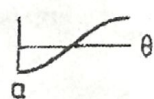
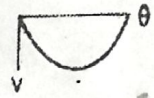
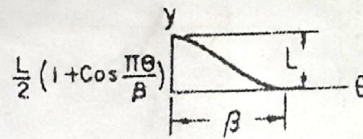
H-3



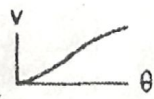
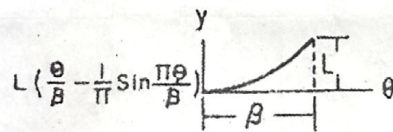
H-4



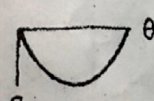
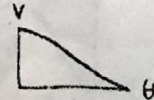
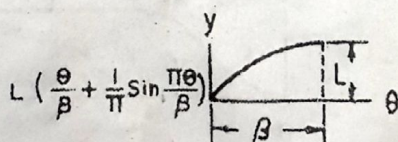
H-5



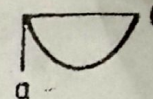
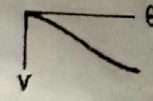
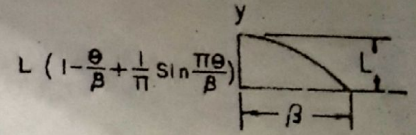
H-6



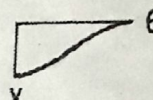
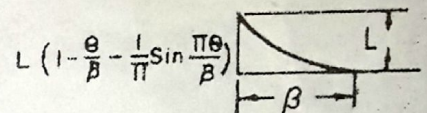
C-1



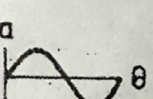
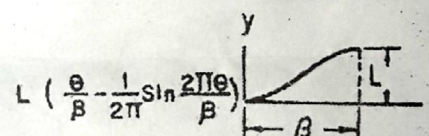
C-2



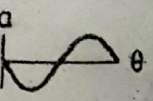
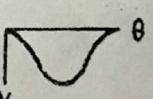
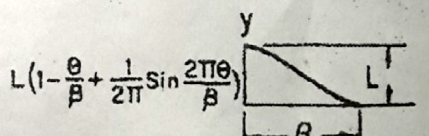
C-3



C-4



C-5



C-6

Fig. 6.13 Harmonic Motion Characteristics

Fig. 6.14 Cycloidal Motion Characteristics

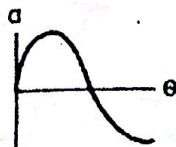
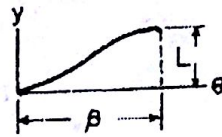
$$y = L[6.09755\left(\frac{\theta}{\beta}\right)^3$$

$$-20.78040\left(\frac{\theta}{\beta}\right)^5$$

$$+26.73155\left(\frac{\theta}{\beta}\right)^6$$

$$-13.60965\left(\frac{\theta}{\beta}\right)^7$$

$$+2.56095\left(\frac{\theta}{\beta}\right)^8$$



P-1

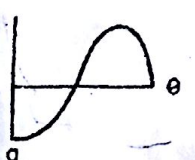
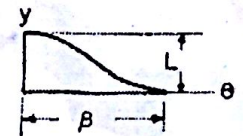
$$y = L[1 - 2.63415\left(\frac{\theta}{\beta}\right)^2$$

$$+2.78055\left(\frac{\theta}{\beta}\right)^5$$

$$+3.17060\left(\frac{\theta}{\beta}\right)^6$$

$$-6.87795\left(\frac{\theta}{\beta}\right)^7$$

$$+2.56095\left(\frac{\theta}{\beta}\right)^8$$



P-2

Fig. 6.15 Eighth Power Polynomial Characteristics

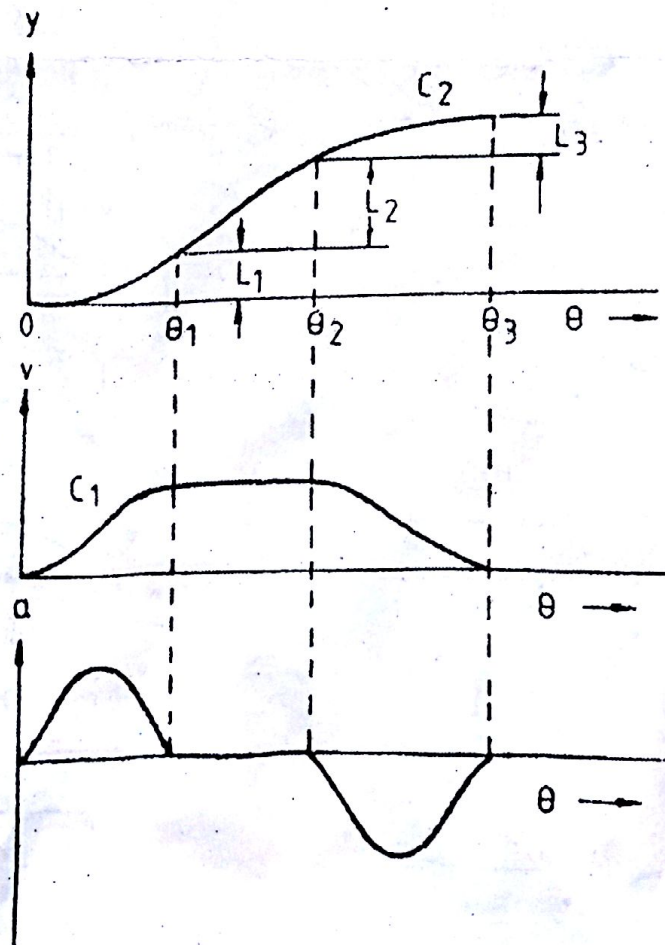


Fig. 6.16 Displacement, Velocity, and Acceleration Solutions