Diseño de Levas

Nombre: Said Eid Mendez

Tiempo total = 1.3+0.2+0.4+0.8+0.5+1 = 4.2 seg

Velocidad angular leva = 1 Rev/4.2 Seg = 0.2380 RPS

Velocidad angular leva = 0.2380 RPS*(360 Grados/1 Rev) Rev = 85.68 Grados/Seg

Rotación Angular

Beta i = Velocidad angular leva * Tiempo i

Beta 1 = 85.68 * 1.3 = 111.384 Grados

Beta 2 = 85.68 * 0.2 = 17.136 Grados

Beta 3 = 85.68 * 0.4 = 34.272 Grados

Beta 4 = 85.68 * 0.8 = 68.544 Grados

Beta 5 = 85.68 * 0.5 = 42.84 Grados

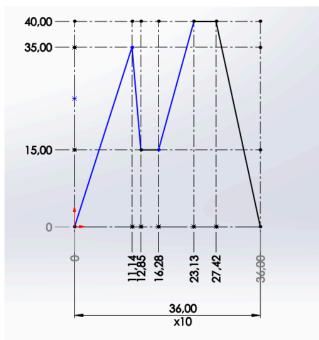
Beta 6 = 85.68 * 1 = 85.68 Grados

Movimiento Cicloidal

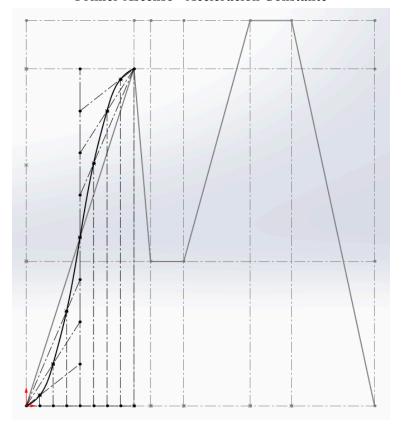
$$r = H/2(pi)$$

 $r = 25/2(pi) = 3.97 \text{ mm}$

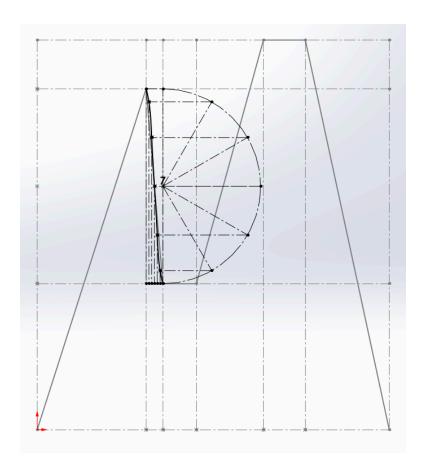
Gráfico Inicial



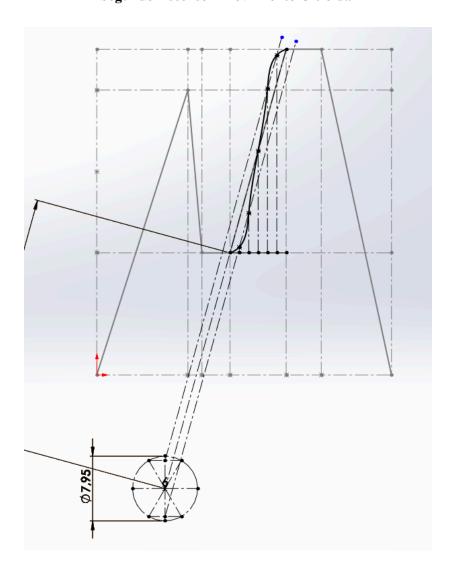
Primer Ascenso - Aceleracion Constante



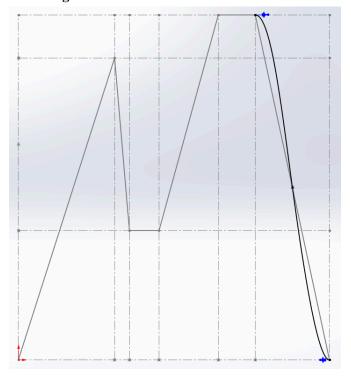
Primer Descenso - Movimiento Armonico



Segundo Ascenso - Movimiento Cicloidal



Segundo Descenso - Velocidad Constante



Conjunto de todos los Ascensos y Descensos

