H k 3

- 1. 极坐标方程 $p(\theta) = \frac{P}{1-\text{Kcos}(3\theta)}$,P = A(1-k) 其中 A=100,K=0. 3
- (1) 计算左侧刀补 Rmax 与右侧右刀补 Rmax
- (2)以 0.5Rmax 为曲率半径,画出极坐标方程轨迹以及左右两侧法向 等距线

Hk 4

- 1. 方程: a=30, b=20, c=15, $\begin{cases} x = a\cos(\varphi)\cos(\theta) \\ y = b\cos(\varphi)\sin(\theta) \end{cases}$, $0 < \theta < 2\pi$, $0 < \varphi < 0.5\pi$ $z = c\sin(\varphi)$
- (1) $\Delta \theta = 1^{\circ}$, $\overline{\theta} = k \Delta \theta$, $k = 1, 2, 3 \cdots$
- (2) $\Delta \varphi = 1^{\circ}$, $\overline{\varphi} = k\Delta \varphi$, $k = 1,2,3\cdots$
- (3)在 (θ, φ) 面上做一个椭圆,投影在(x, y, z)平面上