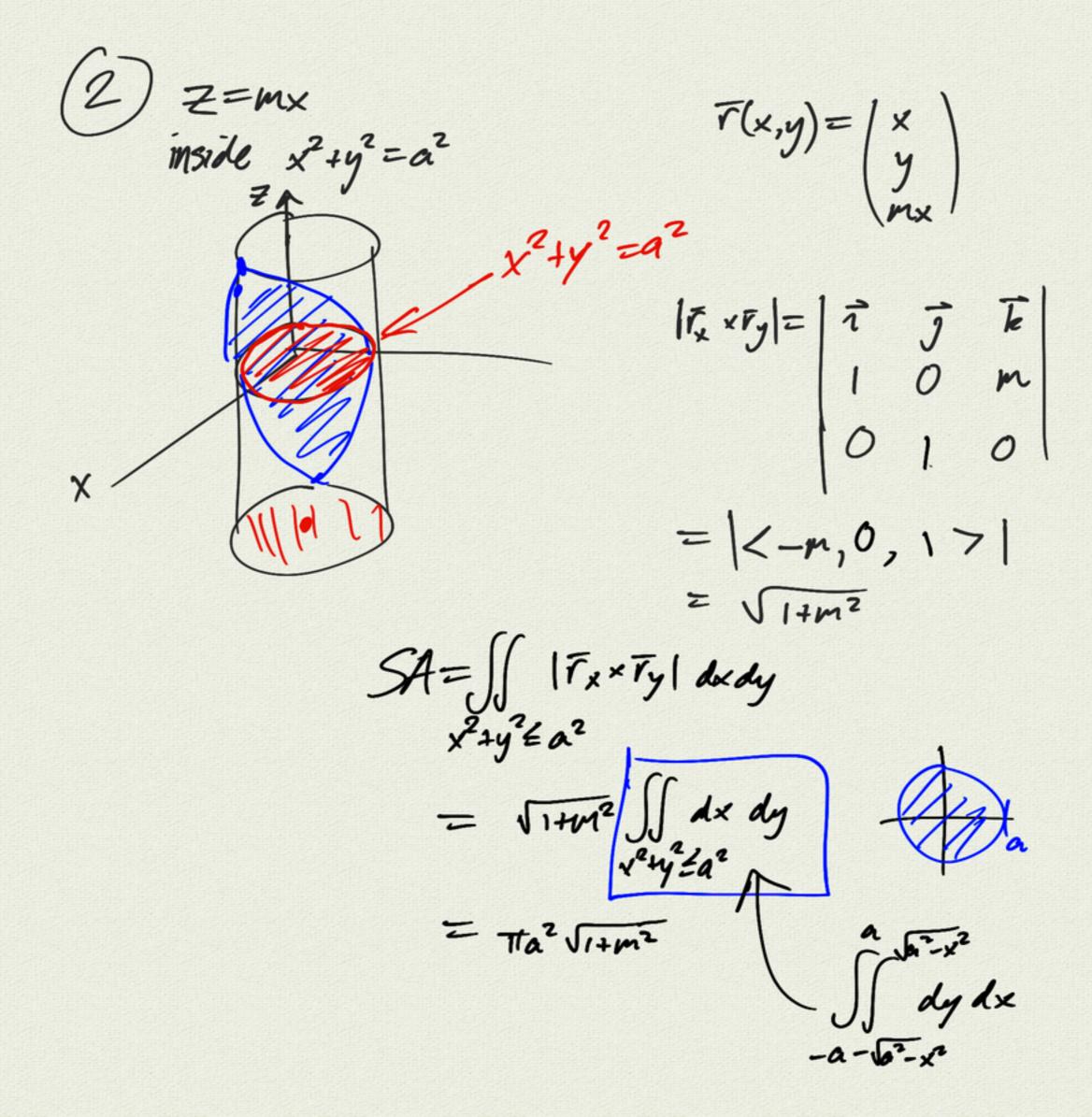
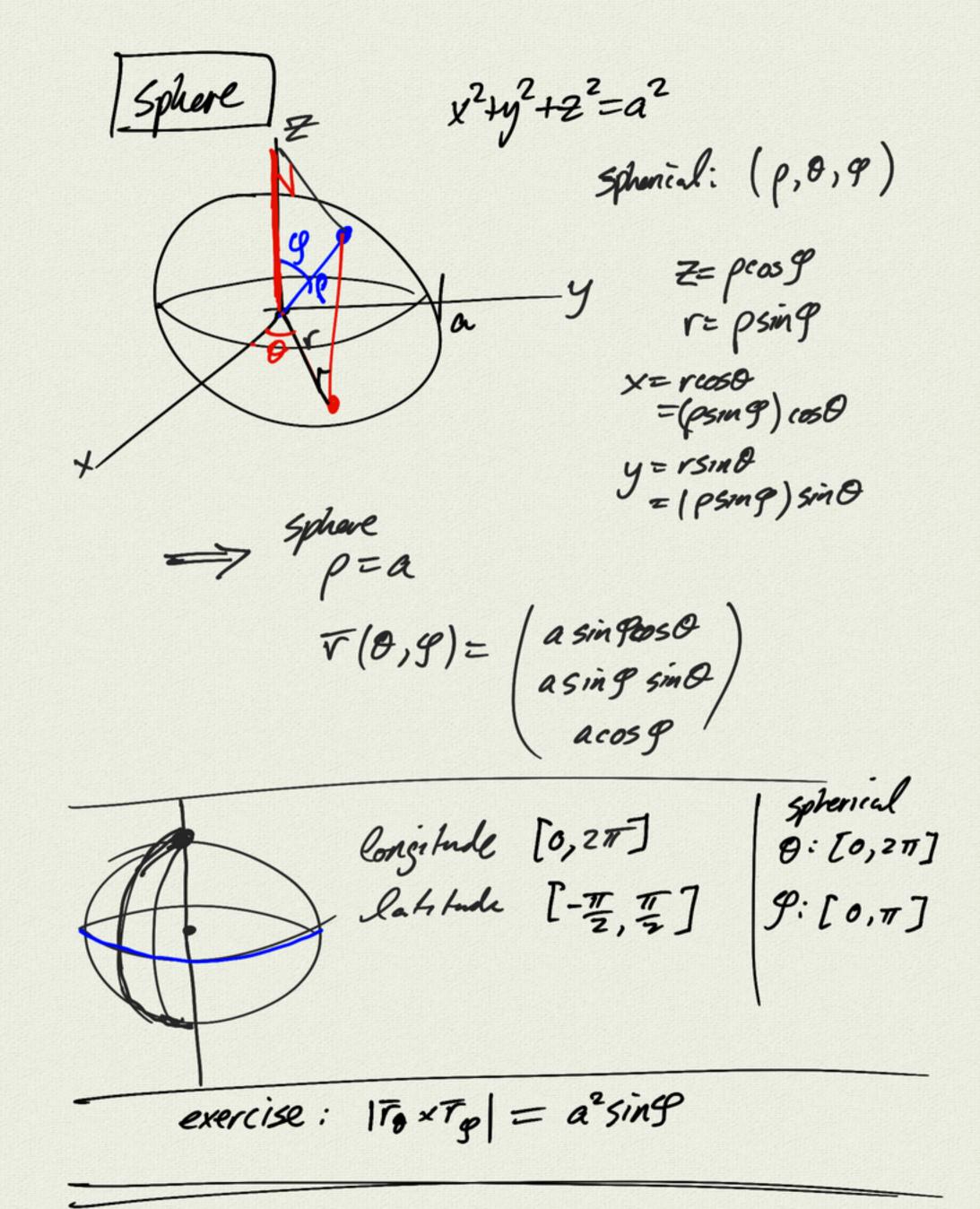
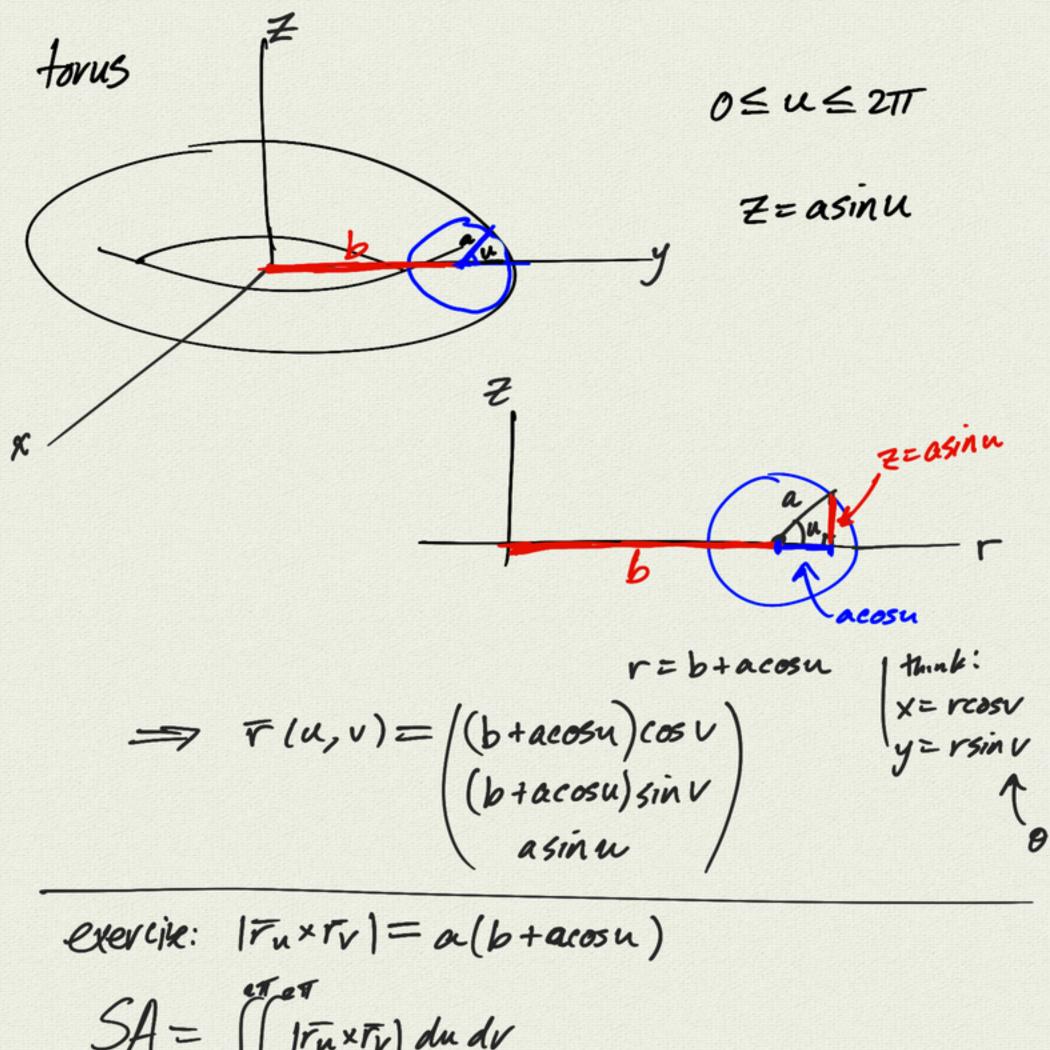
15.4 Guichard |Fr>F6 = r J(a)2+1 Start Geiglet rectangular







exercise:
$$|\vec{r}_u \times \vec{r}_v| = \alpha(b + a\cos u)$$

$$SA = \iint_{0}^{2\pi} |\vec{r}_u \times \vec{r}_v| du dv$$

$$= \int_{0}^{2\pi} \int_{0}^{2\pi} a(b + a\cos u) du dv$$

$$= \int_{0}^{2\pi} \int_{0}^{2\pi} ab du dv + \int_{0}^{2\pi} \int_{0}^{2\pi} a^{2} \cos u du dv$$

$$= (2\pi a)(2\pi b)$$

