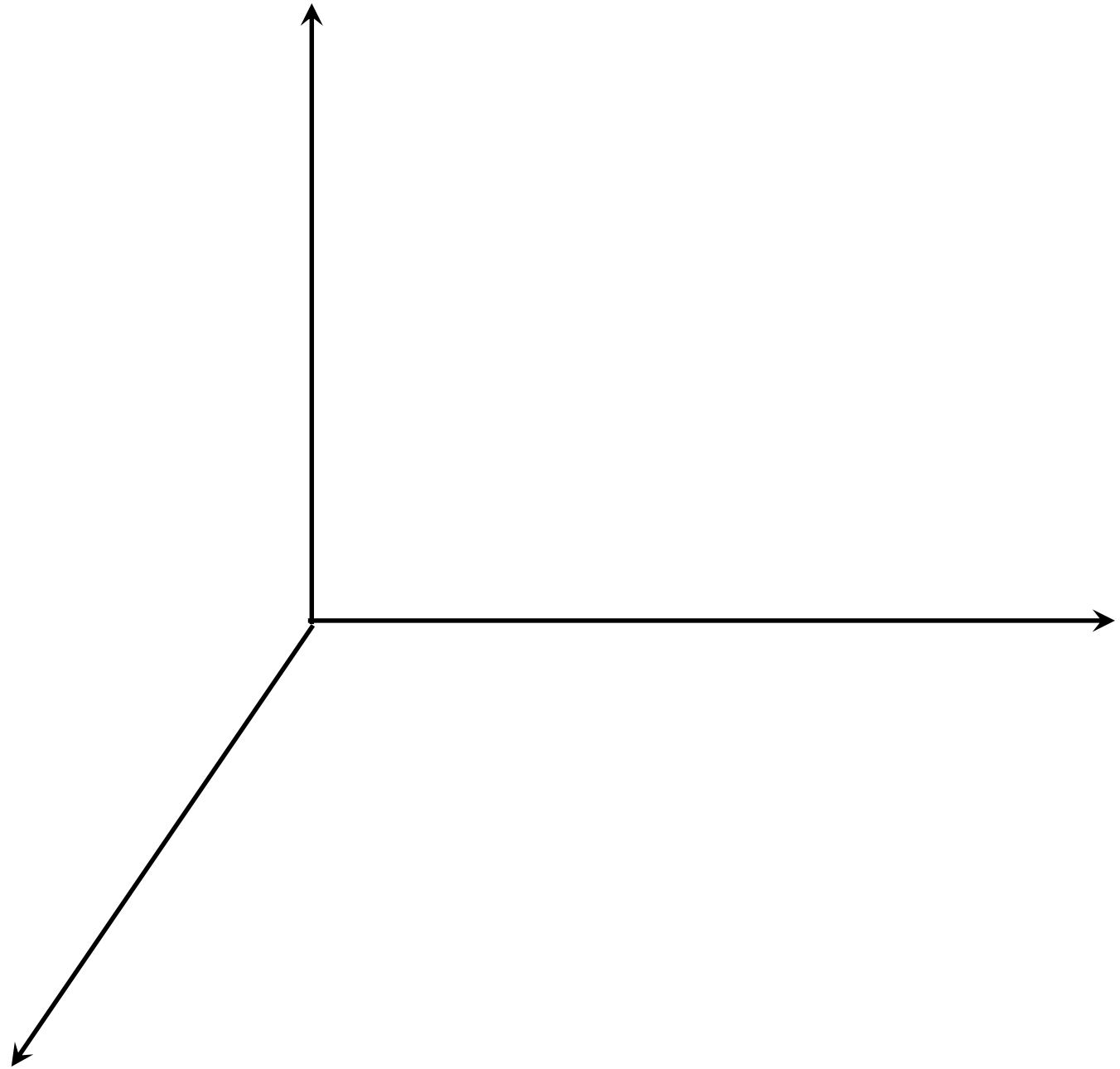
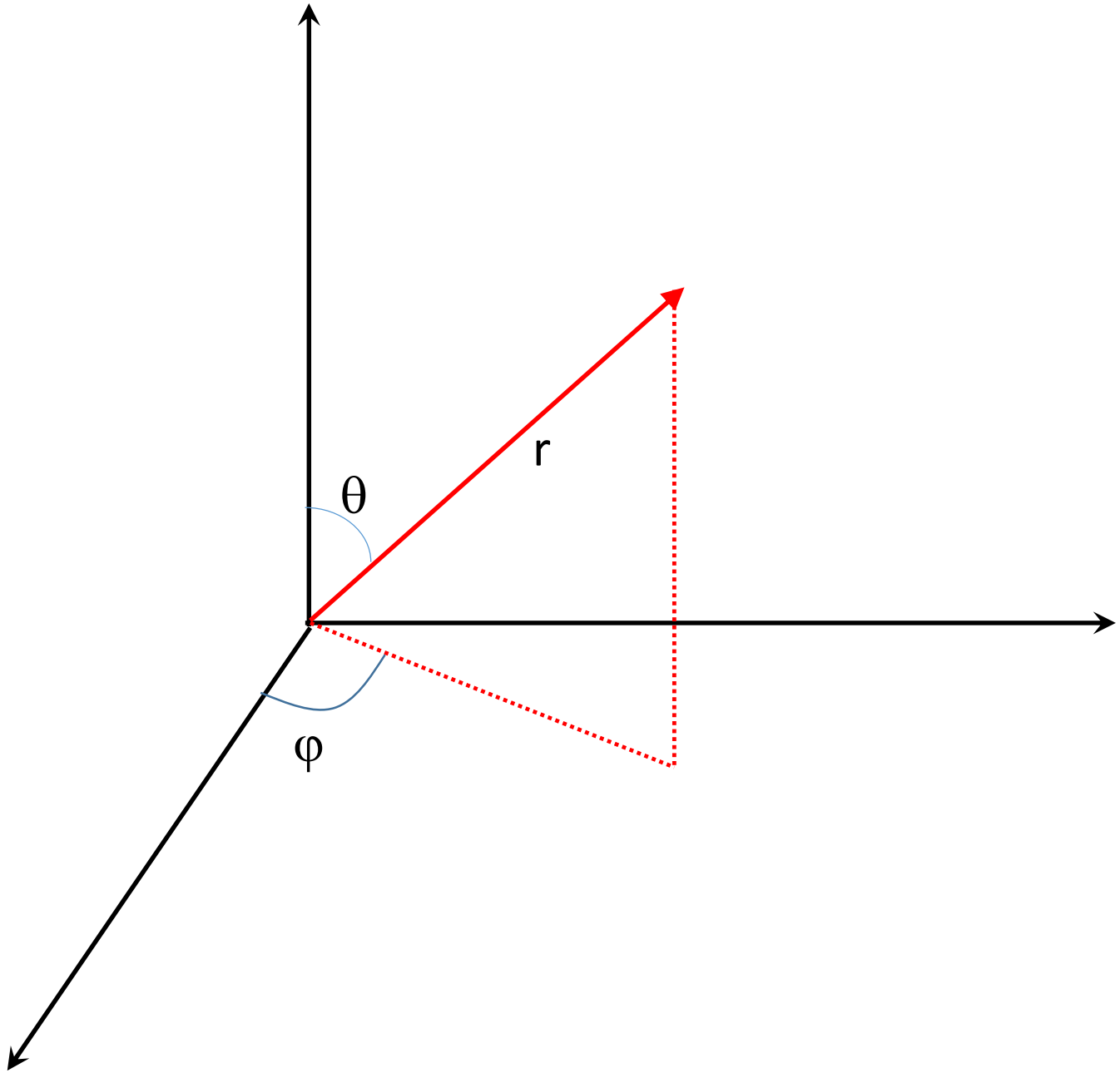
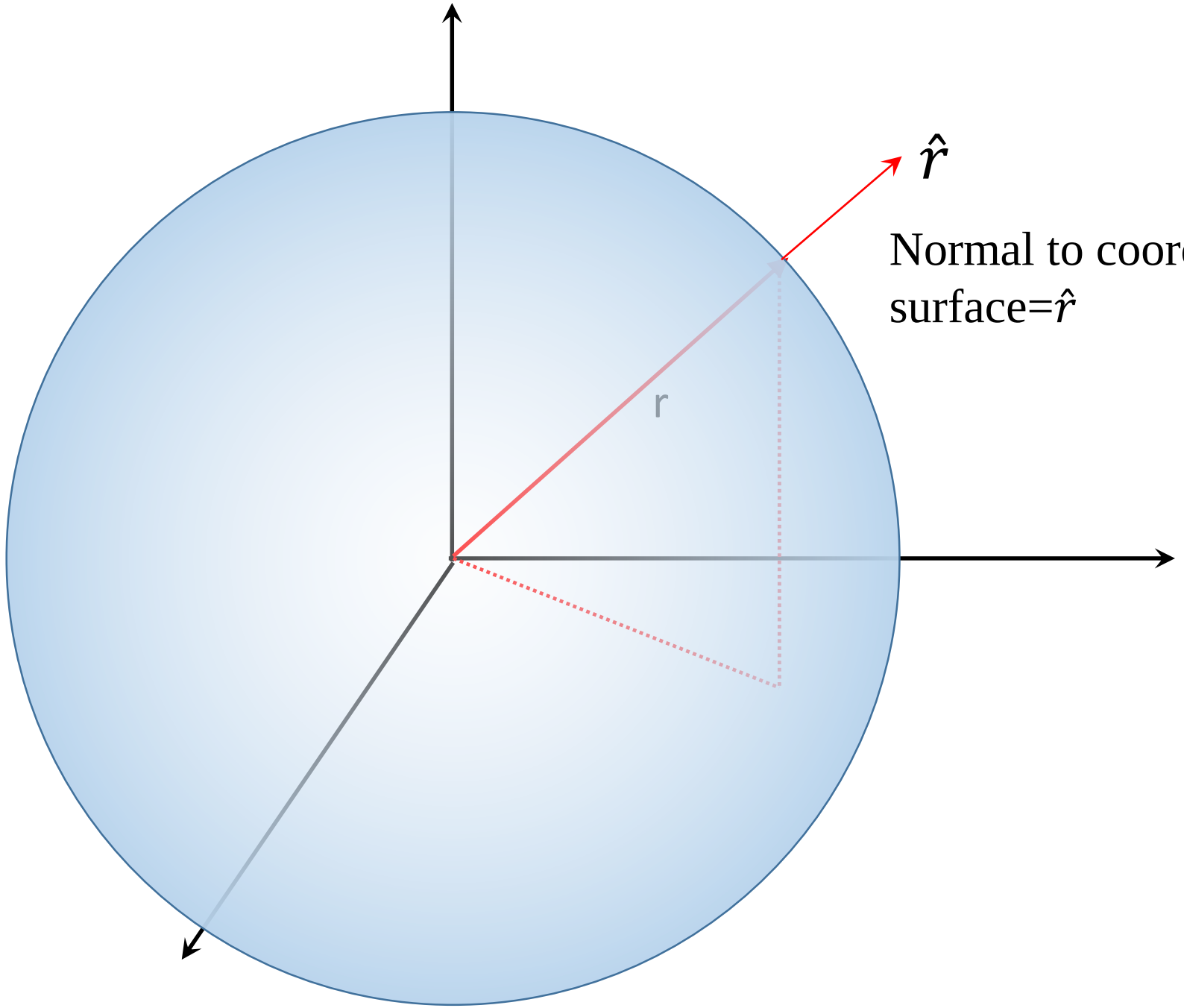



r
θ
φ

Co-ordinate surface

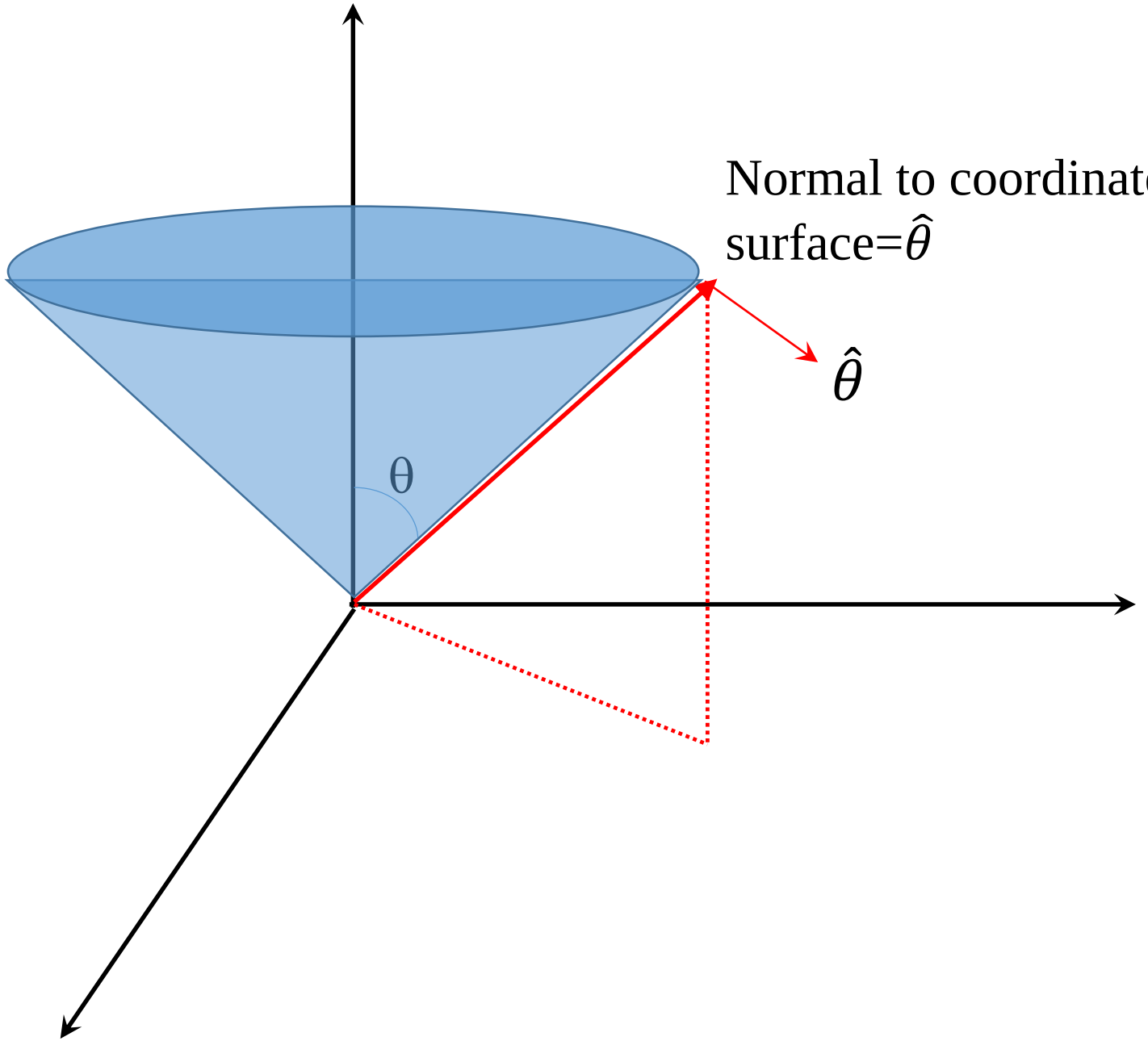
r= constant: sphere



Normal to coordinate surface=$\hat{r}$

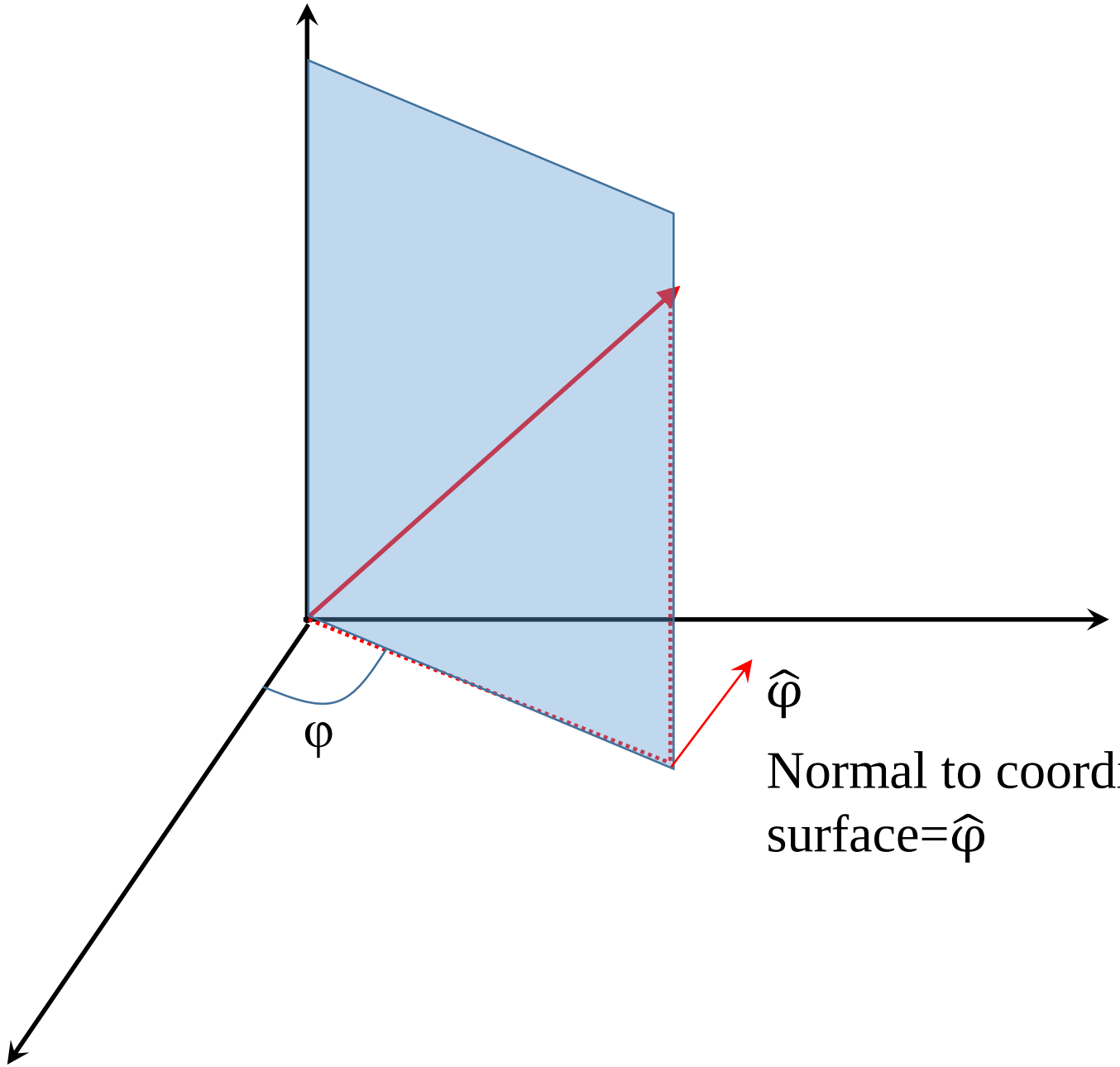
Co-ordinate surface

θ=constant: cone



Co-ordinate surface

φ=constant: plane

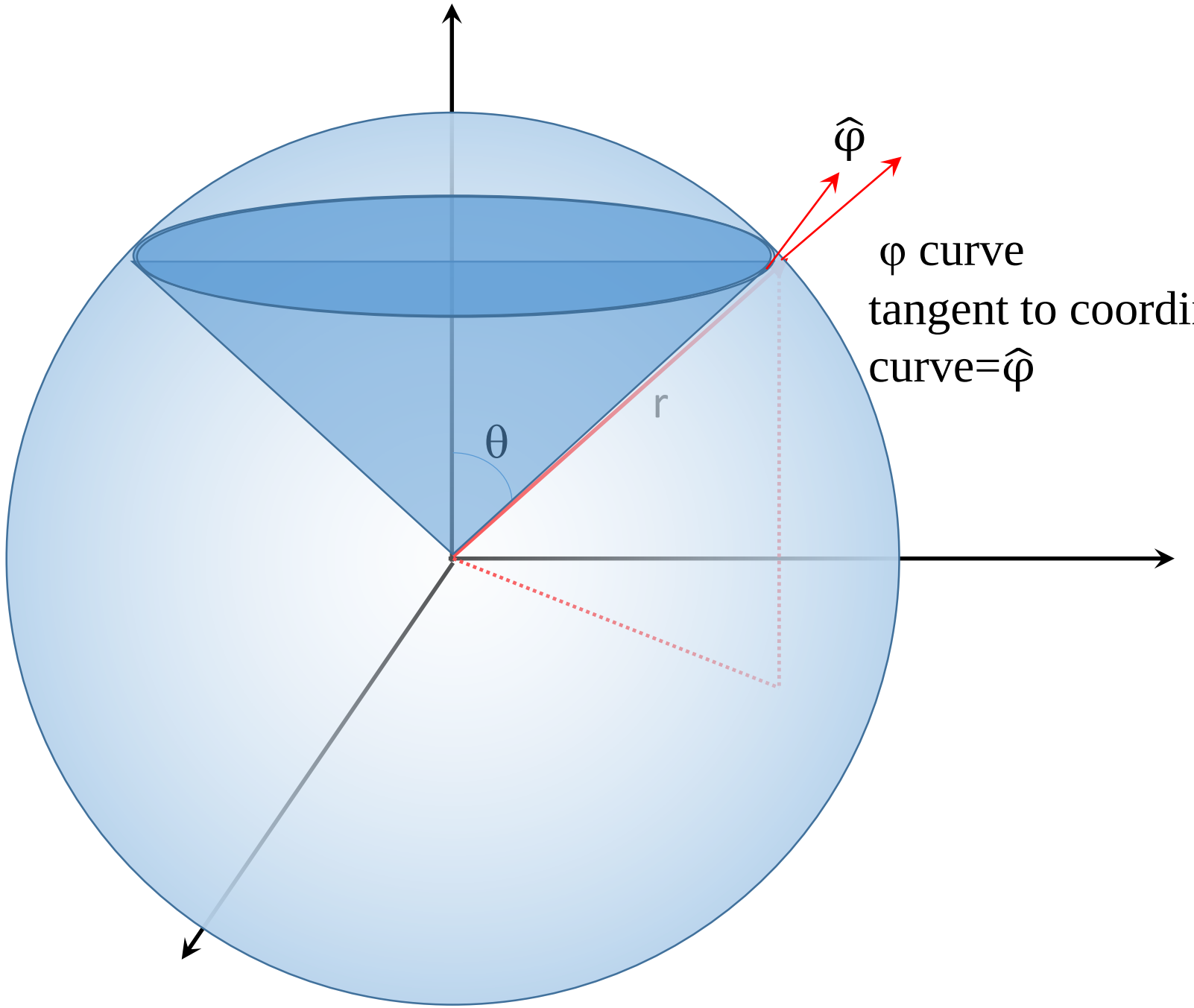


Normal to coordinate surface=$\hat{\varphi}$

Co-ordinate curve

r= constant: sphere

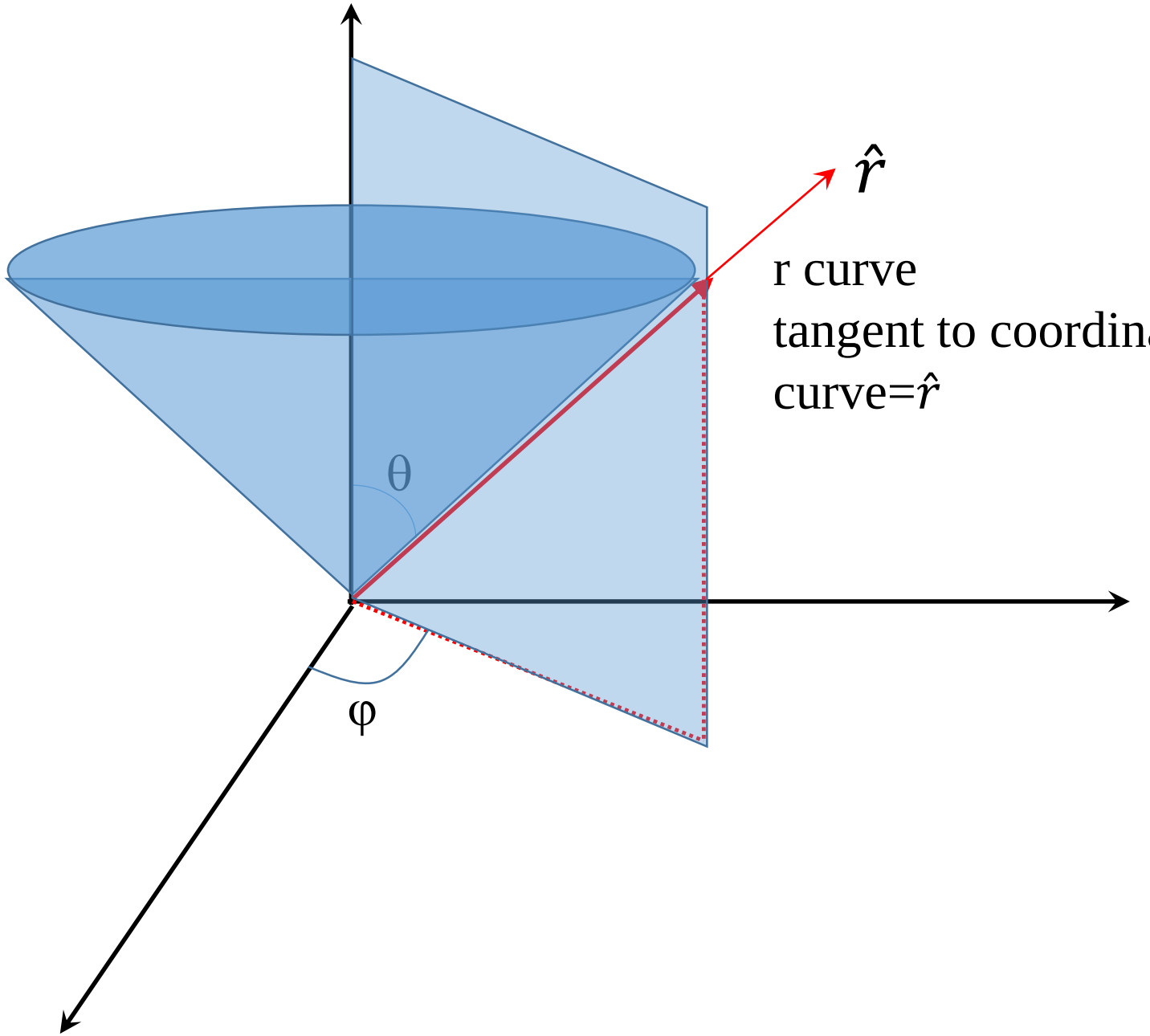
θ=constant: cone



Co-ordinate curve

θ=constant: cone

φ=constant: plane

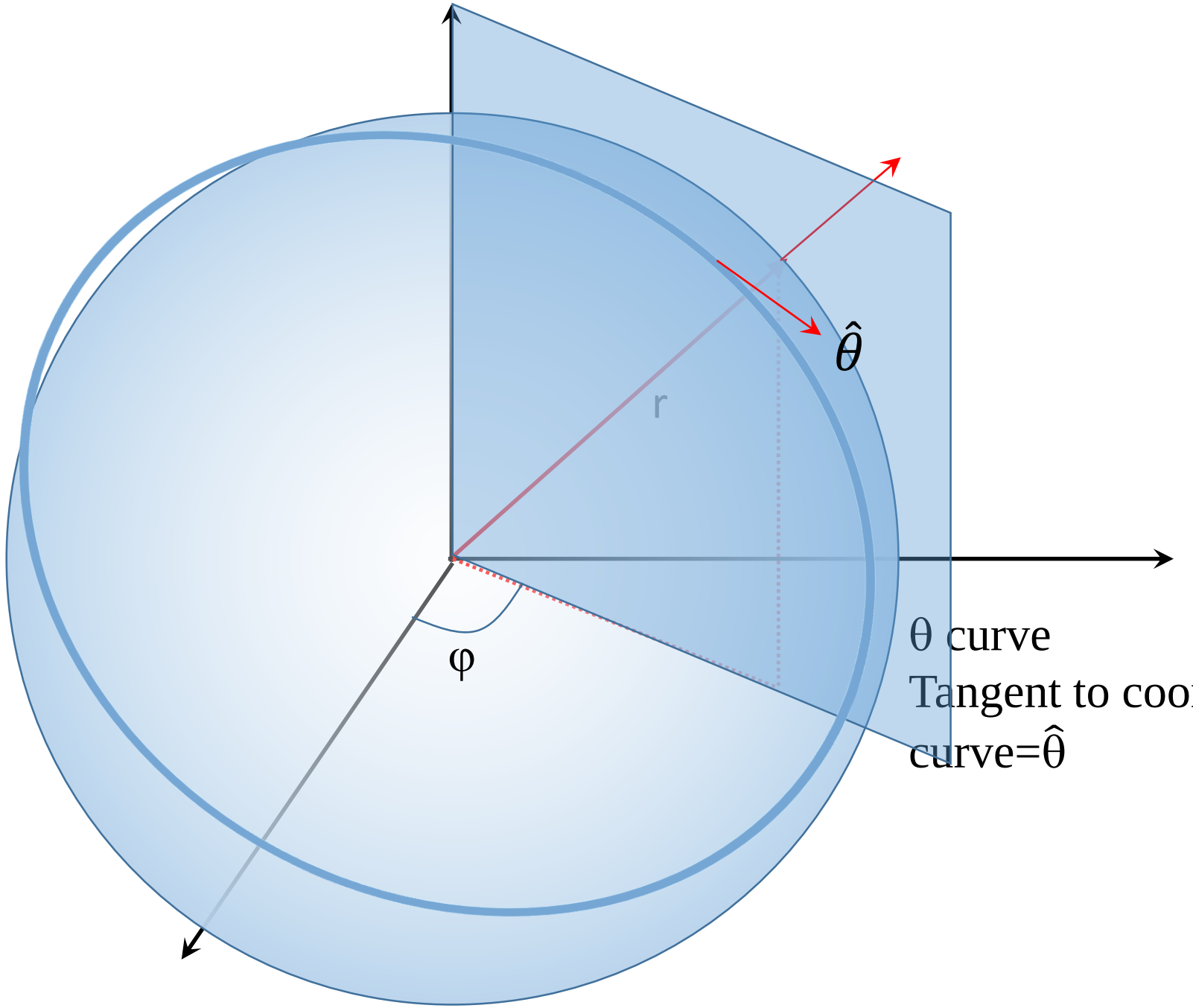


r curve
tangent to coordinate
curve=$\hat{r}$

Co-ordinate curve

r= constant: sphere

φ=constant: plane



θ curve

Tangent to coordinate curve=$\hat{\theta}$