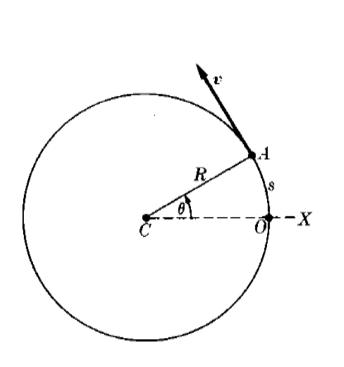
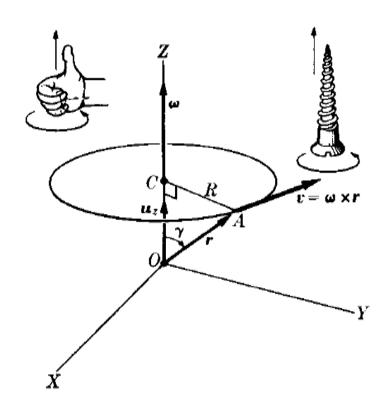
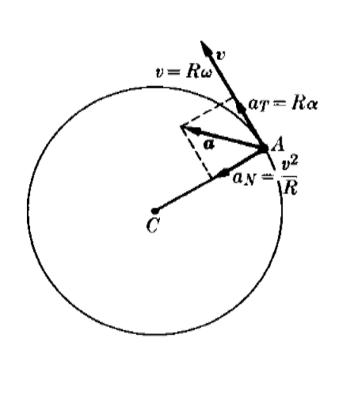
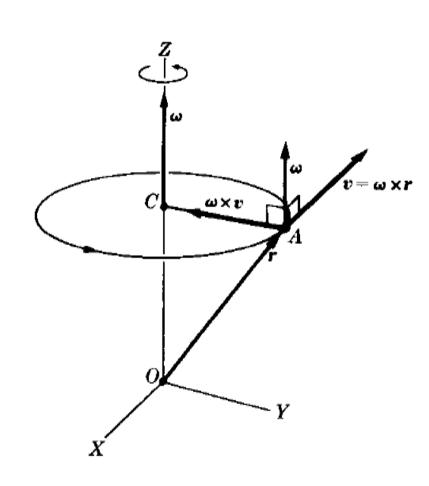
movimento circular: vetor velocidade angular





movimento circular: vetor velocidade angular





Relação com quantidades angulares

Velocidade

$$v = \omega \times r$$
.

Movimento circular uniforme

$$a = \frac{d\mathbf{v}}{dt} = \boldsymbol{\omega} \times \frac{d\mathbf{r}}{dt} = \boldsymbol{\omega} \times \mathbf{v},$$

$$a = \omega \times (\omega \times r).$$