

$$\{\bar{\mathbf{v}}_T(\mathbf{P})\}_B ?$$

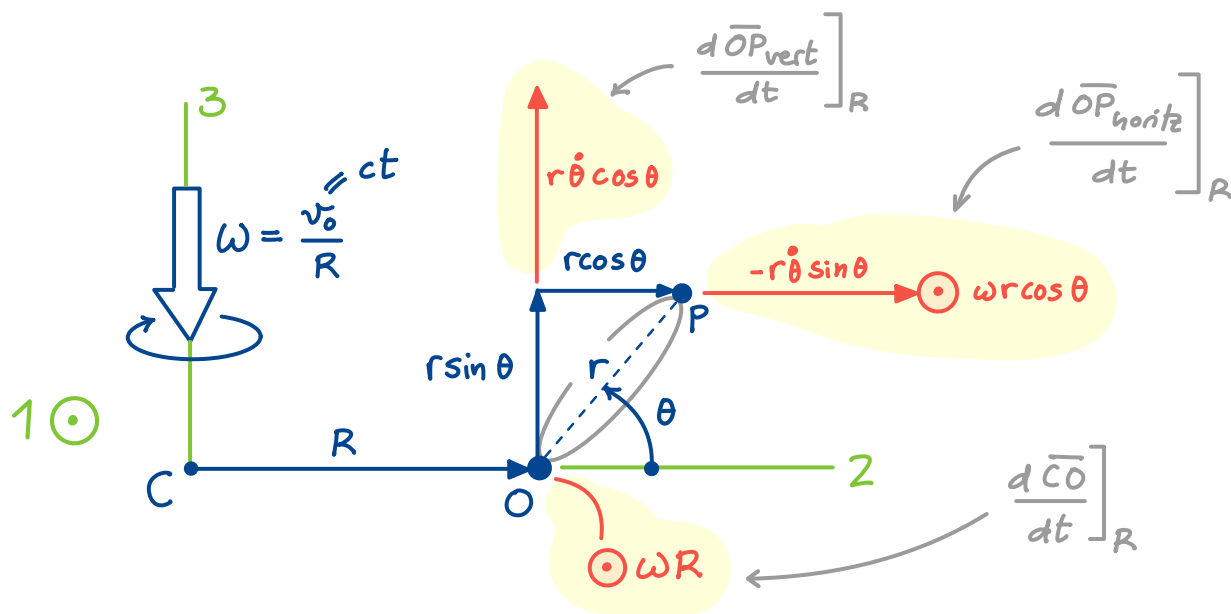
Derivant \overline{CP} geomètricament

$$B = (1, 2, 3)$$

Solució:

Derivarem $\overline{CP} = \overline{CO} + \overline{OP} = \overline{CO} + \overline{OP}_{\text{vert.}} + \overline{OP}_{\text{horitz.}}$

Cal derivar els vecs. blaus, i obtenim els vermells:



Projectem vecs. vermells sobre $B = (1, 2, 3)$:

$$\{\bar{\mathbf{v}}_T(\mathbf{P})\}_B = \begin{Bmatrix} \omega R + \omega r \cos \theta \\ -r \dot{\theta} \sin \theta \\ r \dot{\theta} \cos \theta \end{Bmatrix}_B$$