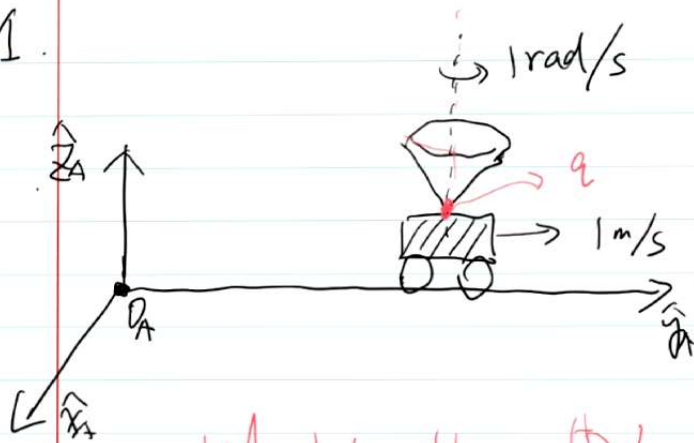


Quiz 1.



$$q(t=0) = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

What's the \dot{V}_{top}

Quiz 1:

$${}^A V_{top} = \begin{bmatrix} {}^A w \\ {}^A V_{OA} \end{bmatrix}$$

$${}^A w = \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix}$$

$${}^A V_q = \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$$

$${}^A V_{OA} = {}^A V_q + {}^A w \times \overrightarrow{{}^A q_{OA}}$$

$$= \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} + \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix} \times - \begin{bmatrix} 0 \\ t \\ 0 \end{bmatrix}$$

$$= \begin{bmatrix} t \\ 1 \\ 0 \end{bmatrix}$$

$$\text{Qp: } {}^A V_{top} = \begin{bmatrix} 0 \\ 0 \\ 1 \\ t \\ 1 \\ 0 \end{bmatrix}$$