Two rods, AB and BC, are connected and moving. A pin at point A follows the vertical slot shown. Find the ICZV for each rod at the instant shown. If rod BC has an angular velocity of 3 rad/s, find the angular velocity of rod AB.

WAB?
ASSUME WAB = WAB K

VB = WBC × TB/C

WBC = 3 rod/s fo

TB/C = 0.1 m f

Vg = 3 k × 0.1 f

= -0.3 m/s f

$$\overrightarrow{V}_{B} = \overrightarrow{W}_{AB} \times \overrightarrow{\Gamma}_{B/IC}$$

$$= \overrightarrow{W}_{AB} \times \overrightarrow{K} \times 0.2 \overline{3} (-\cancel{\uparrow})$$

$$= 0.2 \overline{3} \cdot \cancel{W}_{AB} \cdot \cancel{\downarrow}$$

$$-0.3\% = 0.2\frac{13}{12}$$
 who  $\%$ 
 $\Rightarrow \omega_{AB} = -0.3\frac{13}{0.2} = -1.22 \text{ rad/s}$ 

