A B, C,D pin joints, free to retain given was = | radi/s clock was compute WBC, LBC, ac, Vo. relocity. for VB = WABRBIA (mognitude only) has o velocity. - Velocity of 'C' is perpendicular to

DC. : Helocity of E' is 1 WBC = VB = VC Relace WBC = 5 = VC = 3 m/s

WBC = 1 mol/s & Vc = 3 m/s

C V=3m/S 3VB=5m/S Woc = Irad 15 CCW. IC method cannot be applied diretty to compute acceleration. for rigid body, Angelor acceleration

tangential acceleration = dr

Routreptal acceleration = -rw Te + Jec X V B/c + WBC X (WBC X T B/o)

O + WBC YBC WBC WBC WBC VBC WF 8/o

O = O $\vec{a}_{8} = \vec{a}_{c} + \vec{a}_{8c} \times \vec{v}_{8c}$ $= \vec{a}_{c} + \vec{a}_{8c} \times \vec{v}_{8c}$ The = - winted in opposite

The winted in opposite

What some ic pointed in opposite

What some ic pointed in opposite

By reparation

Airection as d₁₈=0,

ac coming for ABC WBC VC/B ac coming from D toc Wio York equating acceleration in y dan, - dec VCIB - WEB TBIA SIND = - WEO YOCC $-\chi_{8c}(4)-1^2x5x(\frac{3}{5})=-1^2x3$ $(z) \qquad (x + c) \qquad (z)$

given Vs at som angle o' 2 apr 0, compute Va $V_{A} = V_{B}$ $V_{B} = V_{A}$ $V_{B} = V_{B}$ $V_{A} = V_{B}$ $V_{A} = V_{B}$ WAS L SIND - WAS L COND = 0 $= \frac{\sqrt{8} \cos \theta}{\sqrt{2} \sin^3 \theta}$