Practice Questions for Robot Mechanisms - GIM

Velocity and acceleration analysis of Planar Mechanisms using GIM

Software link: https://www.ehu.eus/compmech/software/

Draw the planar mechanism in GIM and compare with the analytical method
[A]

The mechanism shown in the figure is driven by link 2 at $\omega_2 = 45$ rad/s ccw.

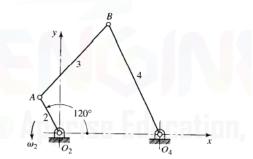


Figure P3.9 $R_{AO_2} = 4 \text{ in}, R_{BA} = 10 \text{ in},$ $R_{O_4O_2} = 10 \text{ in}, R_{BO_4} = 12 \text{ in}.$

[B]

The offset slider-crank mechanism shown in figures 1 and 2 is driven by a motor with angular velocity $\omega 2$ = 500 rpm (ccw) at A. Determine the instantaneous velocity of point E and the angular velocities of the links in the mechanism. AB link angle is 45 degree.

