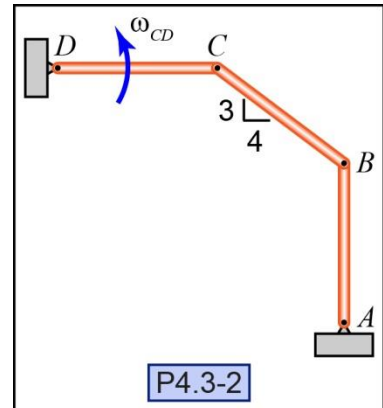**P4.3-2)^fe** The bar linkage shown is set in motion by applying a counterclockwise angular velocity of 10 rad/s to bar CD. All links have the same length. Determine the angular velocity of bar AB at the instant represented in the figure.

P4.3-2

Given:

Find:

Solution:

Velocity	**Angular velocity**
Draw the direction of the velocities and angular velocities on the figure. Include a coordinate system.	Use the relative velocity equation between points B and C to determine the angular velocity of link AB.

Calculate the velocity of point C.

$\mathbf{v}_C = $ _____

Determine the velocity of point B as a function of ω_{AB}.

$\mathbf{v}_B(\omega_{AB}) = $ _____

$\omega_{AB} = $ _____