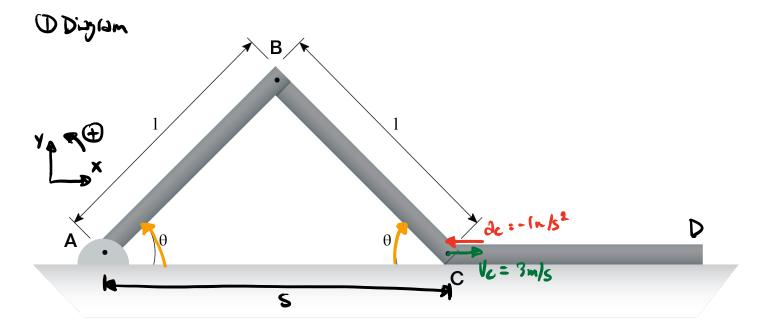
Determine the angular velocities and angular accelerations of links AB and BC if end D has a velocity of v = 3m/s to the right and an acceleration of $a = 1m/s^2$ to the left. Link AB and BC both have a length l = 0.5m and the angle is given as $\theta = 60deg$.



$$S = (0.5) \cos \theta L = \cos \theta$$

 $\dot{S} = -\sin \theta \cdot \dot{\theta} = -\sin \theta = 0$
 $\dot{S} = -\sin (60^{\circ}) \cos \theta = 0$
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$$\ddot{S} = -\cos(60^\circ) (273^\circ)^2 - \sin(60^\circ) d$$

$$-1 = -\cos(60^\circ) (273^\circ)^2 - \sin(60^\circ) d$$

$$-1 = -\cos(60^\circ) (273^\circ)^2 - \sin(60^\circ) d$$

V= WX r

$$\vec{d}_{AB} = 10\sqrt{3} \text{ rayse } \hat{k}$$

$$\vec{d}_{RC} = -10\sqrt{3} \text{ rayse } \hat{k}$$