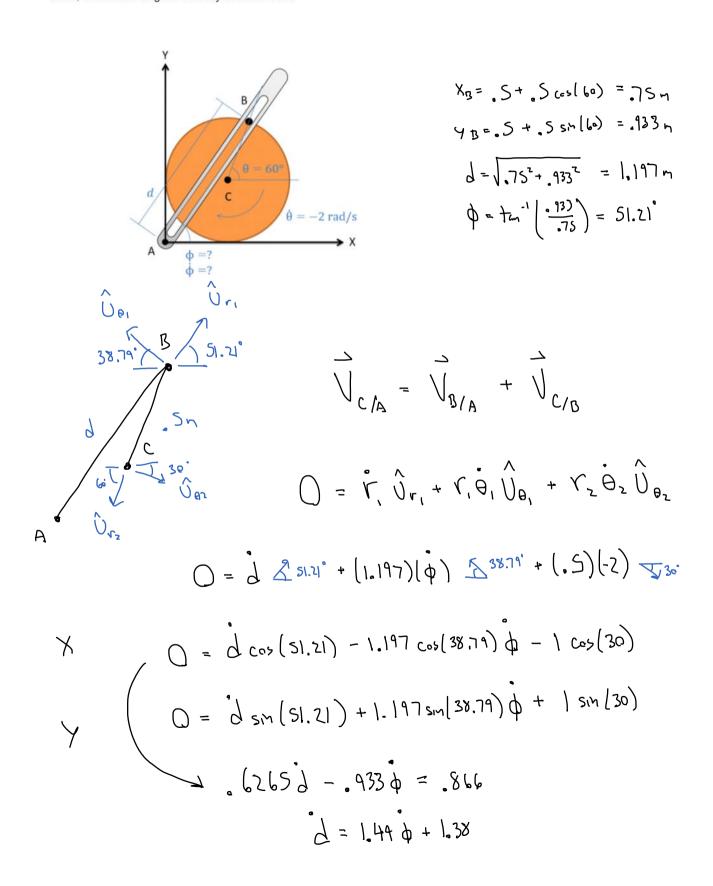
Problem 4

The crank-rocker mechinism as shown below consists of a crank rotating about its fixed center at C at a constant rate of 2 rad/s clockwise and a rocker AB fixed at it's base at A. A pin at point B is fixed to the edge of the crank and can slide along the frictionless slot in AB. In the current state, what is the angular velocity of rocker AB?



$$O = (1.44 + 1.38) sin(S1.21) + 1.197 sin[38.79) + 1 sin[30)$$

$$O = 1.161 + 1.078 + .750 + .5$$

$$-1.578 = 1.911 + 1.078 + .826 rad/s^{2}$$