ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

ES 204 Mechanical Systems

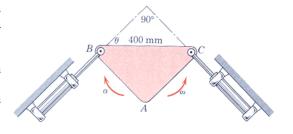
Example Problem - Le 21

5.136 At the instant shown, θ =45 deg and the plate ABC has a counterclockwise angular velocity of 20 rad/s and a clockwise angular acceleration of 100 rad/s².

Determine:

- a) the magnitude of the velocity of the piston attached to C,
- b) the magnitude of the acceleration of the piston attached to C

(taken from Dynamics, 3rd Edition by Merriam & Kraige)



Relative Acceleration Page 1 of 1