

PROB 7.1. LAY OUT A CRANK ROCKER MECHANISM SO THAT THE OUTPUT ROCKER WILL ROTATE THROUGH 60° AND THE MINIMUM TRANSMISSION ANGLE IS 40° .

GIVEN:

1. 4 BAR MECHANISM
2. ROCKER / FOLLICER ROTATES THROUGH 60° ANGLE
3. THE MINIMUM TRANSMISSION ANGLE IS 40°

ASSUMPTIONS:

1. THE MECHANISM MUST BE ABLE TO COMPLETE A CYCLE WITHOUT BE THE NEED TO DISASSEMBLE THE MECHANISM.
2. ONE OF THE LINKS SHOULD ~~MAY~~ BE ABLE TO MAKE A FULL REVOLUTION DURING THE CYCLE
3. ALL LINKS ARE RIGID
4. THE ~~IN~~ LINKS OF THE MECHANISM ALL MOVE IN THE SAME PLANE OR IN PARALLEL PLANES.

FIND:

1. DESIGN THE 4-BAR MECHANISM THAT MEETS THE DESIGN SPECIFICATIONS

FIGURE:

