HOMEWORK SOLUTION MER312: ADV. DYN. O KEN. PROB 2.2 PolofZ KIMBRELL

PROB 2.2 | DETERMINE THE PATH OF POINT C USING 15° INCREMENTS OF ROTATION OF LINK 1. (ODA=1.0, AB=3.0, OBB=1.5, ODOB=3.0, AC=BC=2.0)

## GIAEN:

1. 4-BAR LINKAGE WITH A 3 NODE COUPLER CINIZ, SHOWN BELOW
2. DRIVE LINK GOING THROUGH 15° INCREMENTS OF RETATION

3. THE INJULAR ANGLE OF THE DRIVE LIWK WITH RESPECT TO THE POSSTIVE HONDERNAGE IS 60°

4. OAA = 1.0, AB = 3.0, OBB = 1.5, OAOB = 3.0, AC=BC = 2.0

## Assemptions:

1. ALL LIWKS ARE RIGID

2. THE MOTION OF ALL LINKS ARE PLANAR

3. ALL JOINTS ARE PRICTICALES:

4. THE LIMES DO NOT INTEPER WITH EACHOTHER DURING THE ROTATION.

## FINO:

1. THE POSITION OF POINT C FOR ELACH 15° ROTATION OF THE DRIVE LINIZ

## FIGURE:



