B

 20’’ 30’’

 A (theta) C

The unit at A consists of a consists of a high torque geared motor which rotates link AB , in the counterclockwise direction at (theta dot ) = .5 rads per second. Unit A is free to roll along the horizontal surface and point C is anchored.

Determine the velocity of unit A when Theta reaches 60 degrees.

Ans = Va = 12.2 in/sec