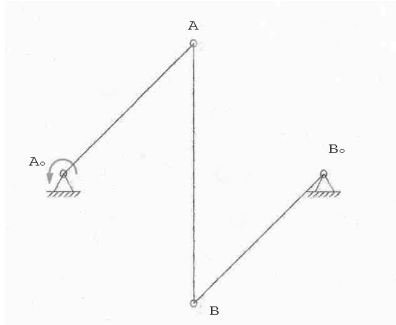**Exercise 1.10:**

a) Graphic analysis of a double crank (anti-parallel)	b) Analysis using the PC-Program SAM 6.0
Please make a sketch on a sheet of paper (DIN A4) with the given coordinates: A_o (0/50) A (15/65) B (15/35) B_o (30/50) Start in the given position and show the positions of the mechanism every 45°-step. Discuss the movement of the coupler AB.	Create the anti-parallel double crank with the given coordinates (s. left). Use the **Input motion**: Motion 360 [deg] Time 0.1 [s] Intervals 300 [-] For the given **n = 10 s^{-1}** , the time T = 1/n = 0.1 s) Now calculate with the **Abacus** icon, N**ode Data** click on point B **Absolute:** √ **Velocity** and animate the mechanism using the **Windmill** icon. Show the coupler curve of the points B using: **Display** and **Path**. Then show the Hodograph by using: **Display** and **Hodograph.** Look at the **Graph of Selected items.** Find the minimum point of velocity and the value of $\mid v_{B,min} \mid$ in [mm/s]. Discuss the graph of velocity v_B.