Exercise 1.12:



Analysis of the acceleration of a slider crank using the PC-Program SAM 6.0 Create the crank-and-rocker with the given coordinates. $A_o (0/0)$ A (100/0) B (350/0) Use the **Input motion**: Motion 360 [deg] Time 0.01 [s] Intervals 36 [-] For the given **n** = **6000** rpm, **n** = **100** s⁻¹, the time T = 1/n = 0.01 s) Now calculate with the Abacus icon, Node Data click on point B X-direction \checkmark Acceleration and animate the mechanism using the Windmill icon. Look at the Graph of Selected items.

Find the maximum point and the value of the velocity $|a_{B,max}|$ in $[m/s^2]$.