Exercise 1.8:



Analysis of the acceleration of a slider crank using PC-Program SAM 6.0 Create the slider crank with the given coordinates in mm: $A_o(0/0)$, A(0/30), B(75/-20)Given: $\mathbf{n} = \mathbf{10} \, \mathbf{s}^{-1}$ ($\mathbf{n} = 600 \, \text{rpm}$); (Time T for one revolution: $T = 1/n = 0.1 \, \text{s}$) Input motion: Motion 360 [deg] Time 0.1 [s] Intervals 36 [-] Abacus Node Data, click on joint B Absolute: $\sqrt{}$ Velocity $\sqrt{}$ Acceleration Look at the Graph of Selected items Find the maximum point of acceleration. What is the Result of $|| a_{B,abs} || \text{ in } [\text{m/s}^2]$?