

### Exercise 1.21:

Swinging transfer-unit (mounting area in the car-industry)	
<p>Create the crank mechanism with exact coordinates by using SAM.</p> <p>a) Find the input for point C (coupler curve <math>k_C</math>) moving 180 mm right, then 180 mm back to the starting position.</p> <p>b) Now let the whole unit additionally move first 20 mm up in vertical direction, then swinging right [see a)], and now 20 mm down again in vertical direction. Move back in a similar way.</p> <p style="text-align: center;"> <math>\rightarrow</math>      <math>\leftarrow</math>            Movement of point C: <math>\uparrow</math>   <math>\downarrow</math> and back <math>\downarrow</math>   <math>\uparrow</math> </p>	<p>Given data:</p> <p><math>A_0</math> (0/0)</p> <p>A (-45/45)</p> <p>B (0/90)</p> <p>C (-90/0)</p>

