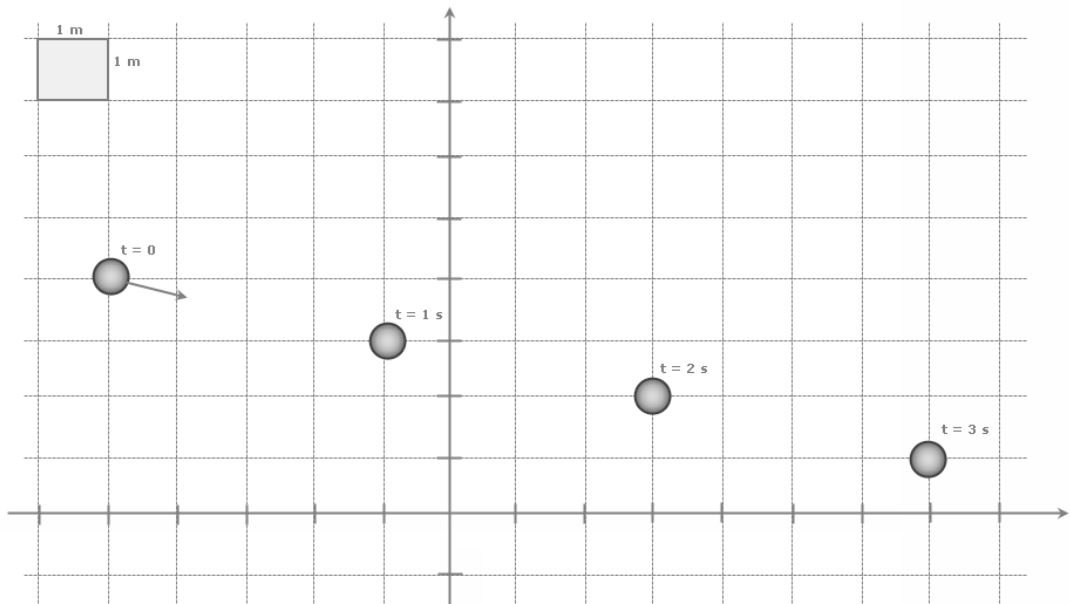


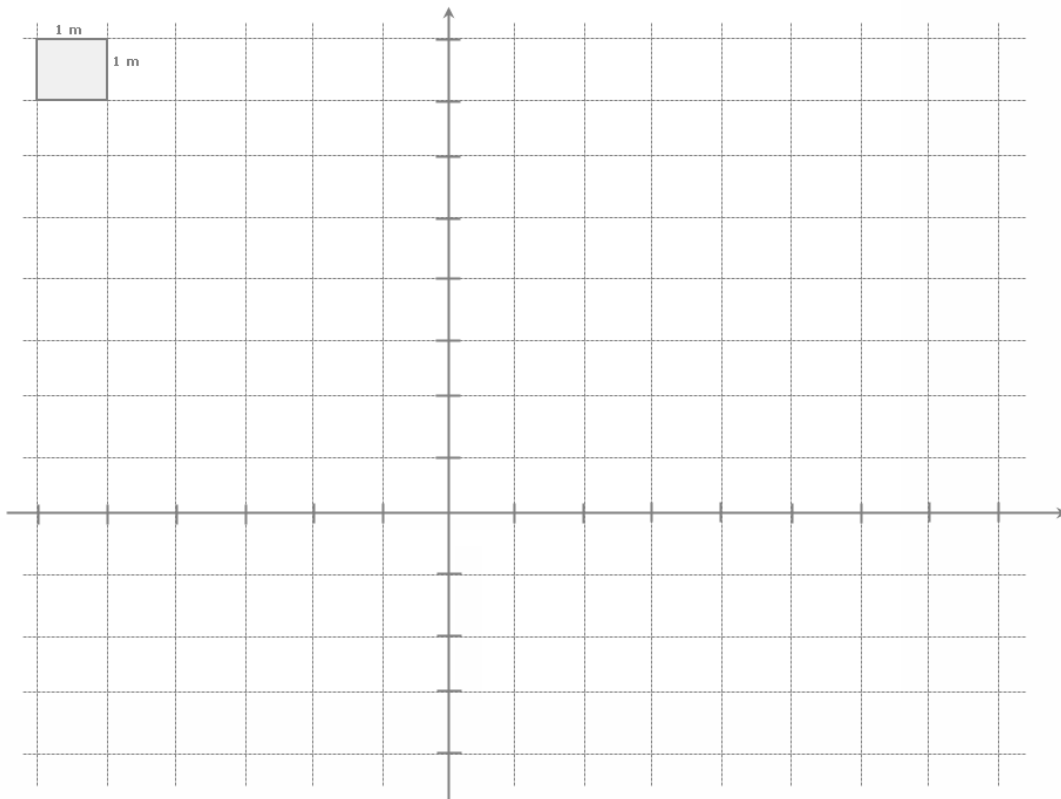
Topic:	Position, distance, displacement
Objective:	FK_11_01
<p>Given the positions of a body in a graphic at different times the student must be capable of doing the following:</p> <ul style="list-style-type: none"> • determine the expressions of the position vectors • calculate the distance from the origin • determine the displacement between two different moments 	

Fill in the gaps in the table and draw the mentioned positions of the body in motion



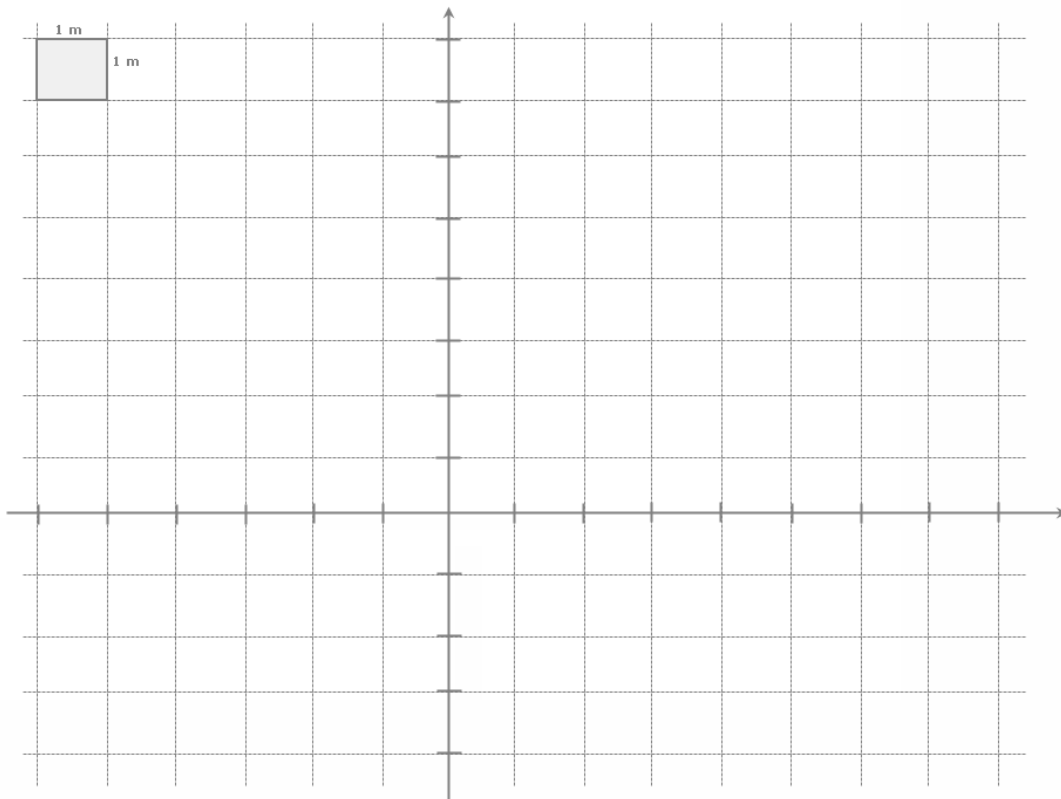
	x	y	\vec{r}	d	$\Delta \vec{r}$
initial position t = 0					
final position t = 2 s					
EQUATION				X	

Fill in the gaps in the table and draw the mentioned positions of the body in motion



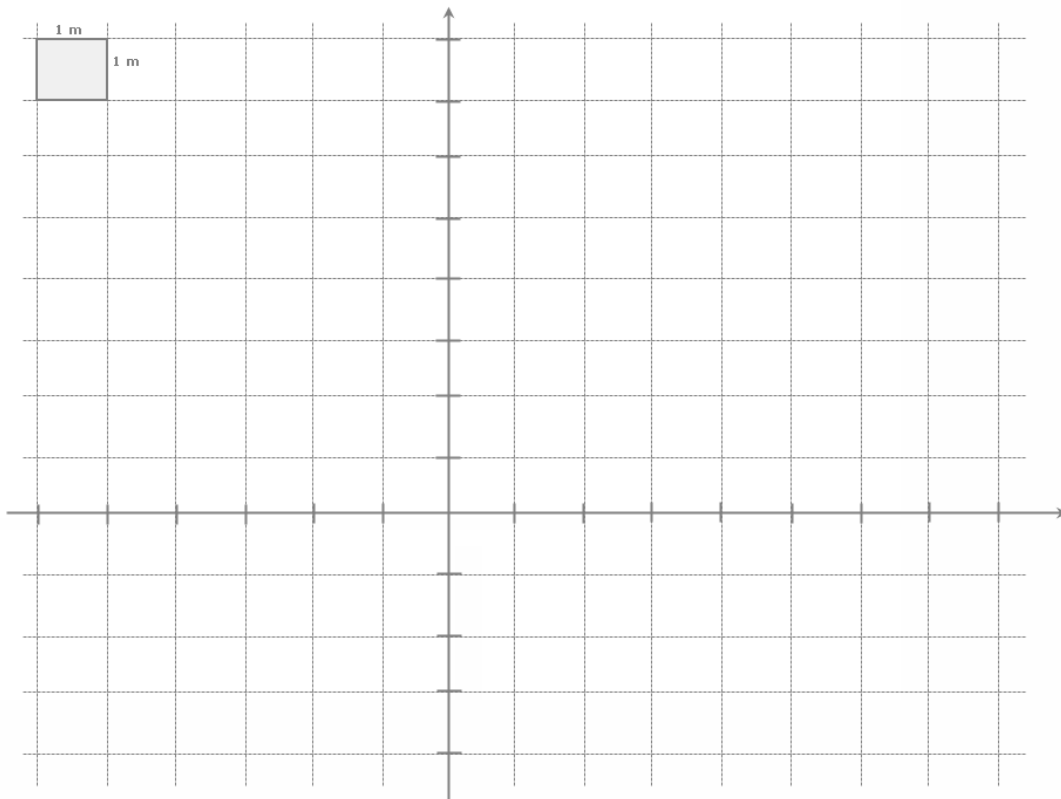
	x	y	\vec{r}	d	$\Delta \vec{r}$
initial position t = 0	1	3			
final position t = 2 s	7	7			
EQUATION				X	

Fill in the gaps in the table and draw the mentioned positions of the body in motion



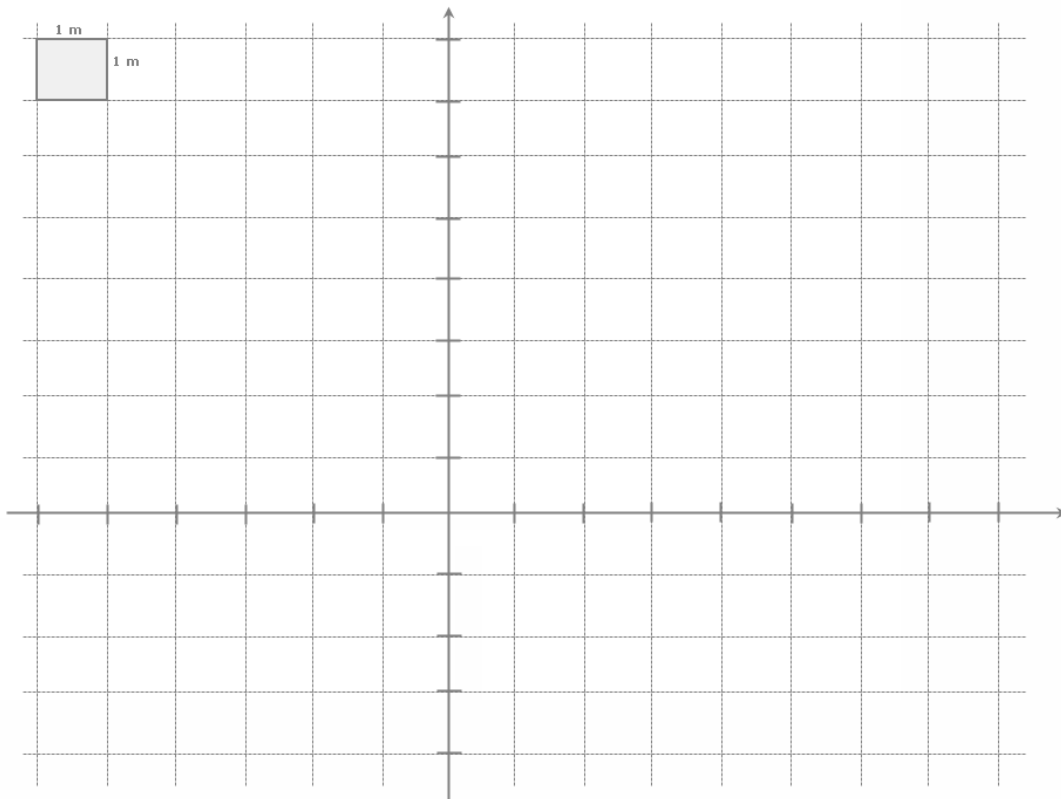
	x	y	\vec{r}	d	$\Delta \vec{r}$
initial position t = 0	-2				
final position t = 2 s	8				
EQUATION			$\vec{r} =$	$+ 5 \vec{j}$	

Fill in the gaps in the table and draw the mentioned positions of the body in motion



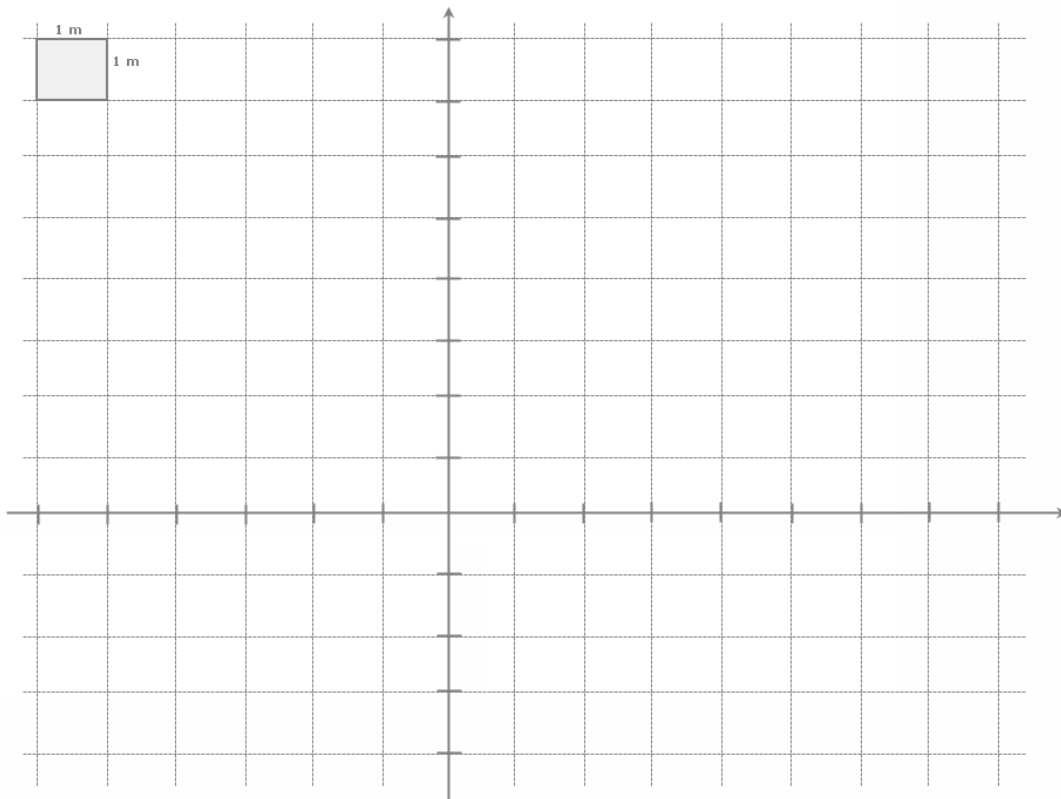
	x	y	\vec{r}	d	$\Delta \vec{r}$
initial position t = 0	-2	4			
final position t = 2 s					
EQUATION				X	$\Delta \vec{r} = 2 * t \vec{i}$

Fill in the gaps in the table and draw the mentioned positions of the body in motion



	x	y	\vec{r}	d	$\Delta \vec{r}$
initial position t = 0					
final position t = 3 s					
EQUATION			$\vec{r} = (-4 + 2 \cdot t) \vec{i} + 5 \vec{j}$	X	

Fill in the gaps in the table and draw the mentioned positions of the body in motion



	x	y	\vec{r}	d	$\Delta \vec{r}$
initial position t = 0	-2	2			
final position t = 2 s					
EQUATION				X	$\Delta \vec{r} = 2 \cdot t \vec{i} + t \vec{j}$