



3	Trajectoires
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Exercice 1 Compléter le tableau et dessiner la **trajectoire** du mobile :

$$\begin{cases} x = 5 \times \cos(t) \\ y = 3 \times \sin(t) \end{cases}$$

t	x	y
0		
30		
60		
90		
120		
150		
180		
210		
240		
270		
300		
330		
360		

PROJET Réaliser sur GeoGebra **une** des trajectoires suivantes :

$\begin{cases} x = 2 \times \cos^3(t) \\ y = 2 \times \sin^3(t) \end{cases}$	$\begin{cases} x = 2 \cos(t) - 0.5 \cos(4t) \\ y = 2 \sin(t) - 0.5 \sin(4t) \end{cases}$	$\begin{cases} x = 1.5 \cos(t) - 0.6 \cos(2.5t) \\ y = 1.5 \sin(t) - 0.6 \sin(2.5t) \end{cases}$
$\begin{cases} x = 1.5 \cos(t) - 0.7 \cos(15t/7) \\ y = 1.5 \sin(t) - 0.7 \sin(15t/7) \end{cases}$	$\begin{cases} x = \cos(t) + 1.5 \cos(2t/3) \\ y = \sin(t) - 1.5 \sin(2t/3) \end{cases}$	$\begin{cases} x = 0.5 \cos(t) + 1.25 \cos(2t/5) \\ y = 0.5 \sin(t) - 1.25 \sin(2t/5) \end{cases}$
$\begin{cases} x = \cos(t) + 0.5 \cos(5t) \\ y = \sin(t) + 0.5 \sin(5t) \end{cases}$	$\begin{cases} x = \cos(t) - 0.625 \cos(8t/3) \\ y = \sin(t) - 0.625 \sin(8t/3) \end{cases}$	$\begin{cases} x = \cos(t) - \frac{4}{7} \cos(7t/3) \\ y = \sin(t) - \frac{4}{7} \sin(7t/3) \end{cases}$
$\begin{cases} x = 0.1(\cos(t) - t \sin(t)) \\ y = 0.1(\sin(t) - t \cos(t)) \end{cases}$	$\begin{cases} x = 0.5 \cos(t) + 1.25 \cos(2t/3) \\ y = 0.5 \sin(t) - 1.25 \sin(2t/3) \end{cases}$	$\begin{cases} x = 2 \sin^3(t) \\ y = (13 \cos(t) - 5 \cos(2t) - 2 \cos(3t) - \cos(4t))/8 \end{cases}$