

Actividad 2.1: curvas paramétricas.

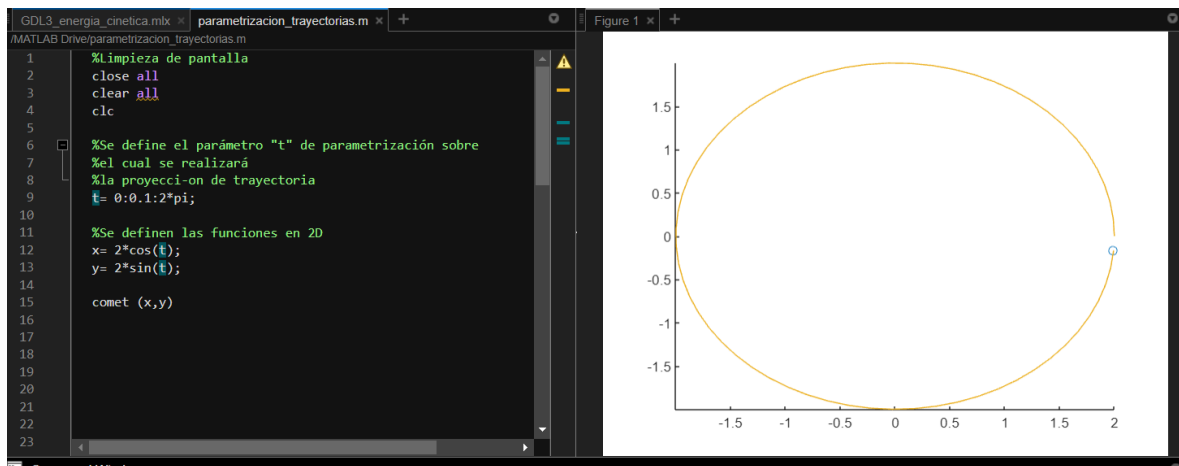
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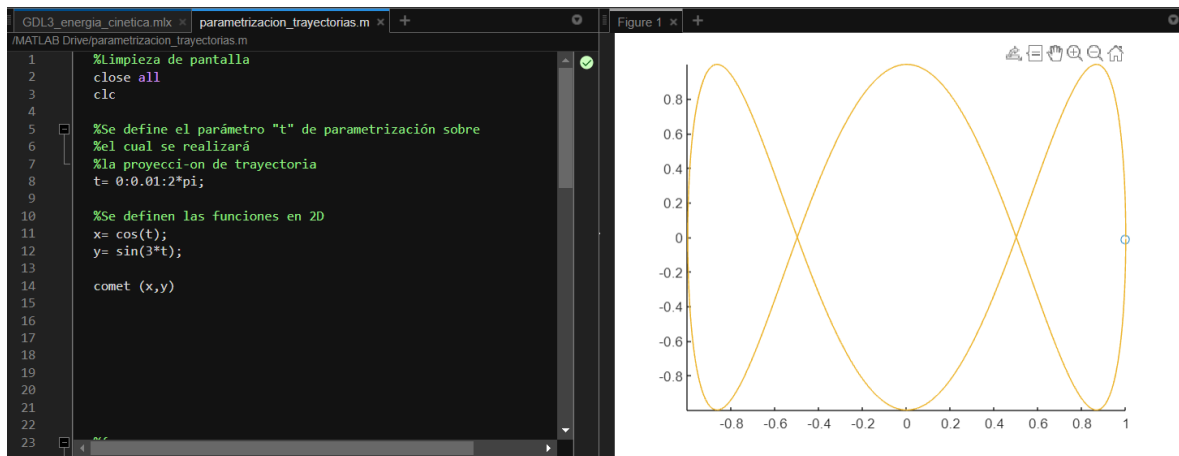
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1. En esta actividad se implementa el código requerido para generar la parametrización de tres trayectorias en un plano 2D.

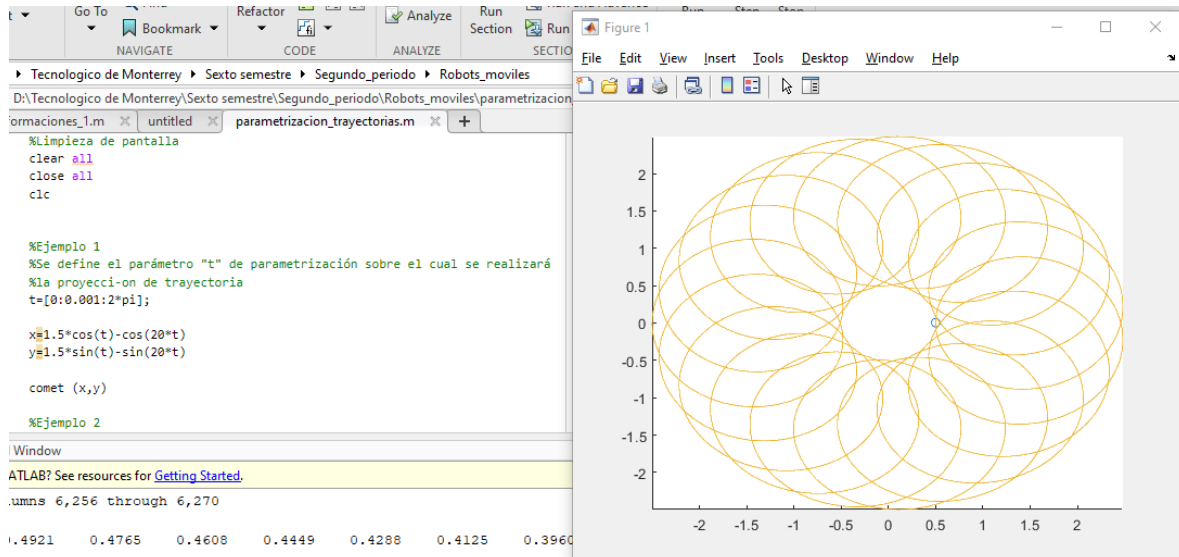
Trayectoria 1:



Trayectoria 2:

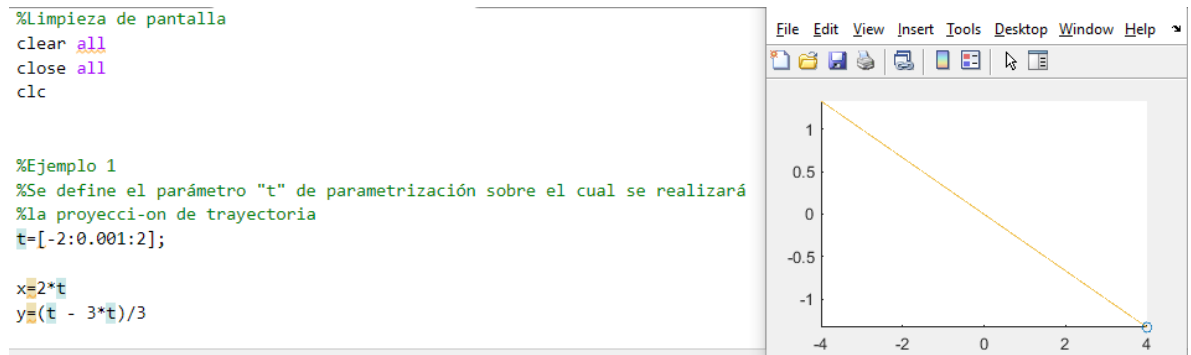


Trayectoria 3:

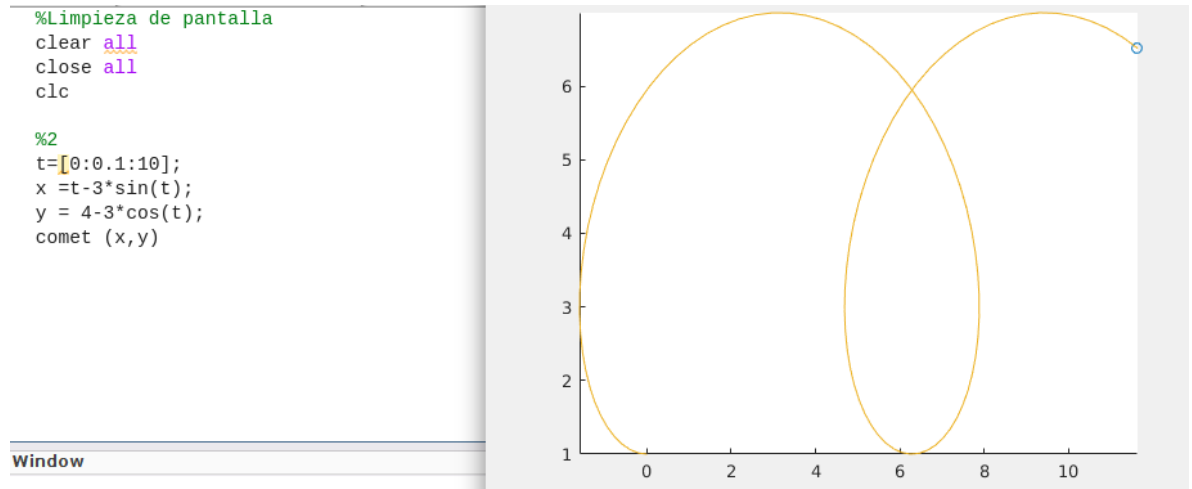


2. Obtener las siguientes trayectorias definidas a partir de curvas paramétricas

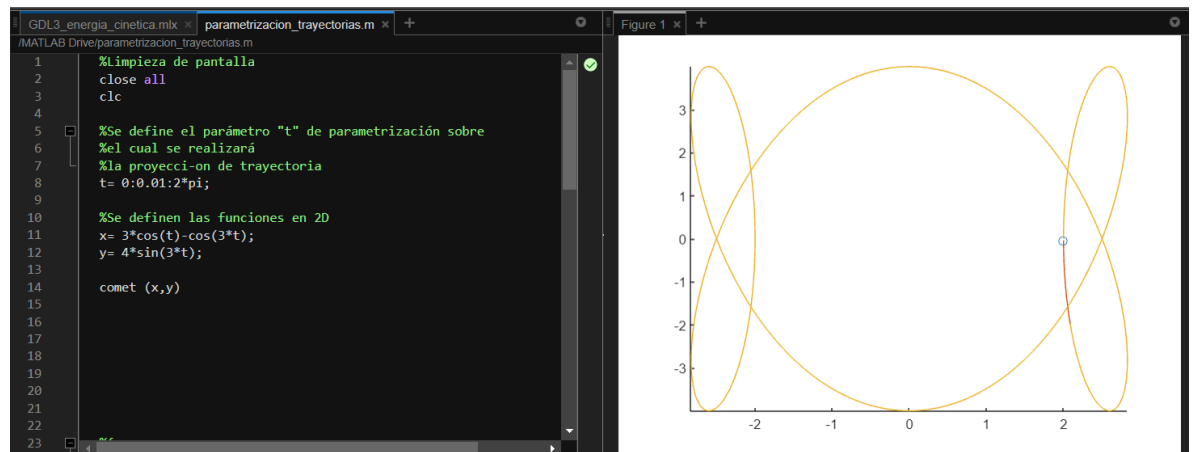
1. a) $x=2t$, $y=(t-3t)/3$, $t \in [-2,2]$



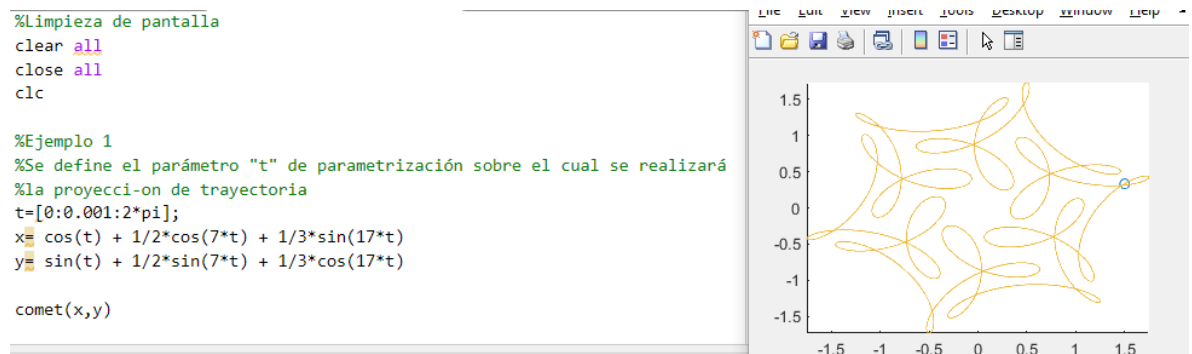
2. b) $x=t-3\sin(t)$, $y=4-3\cos(t)$, $t \in [0,10]$



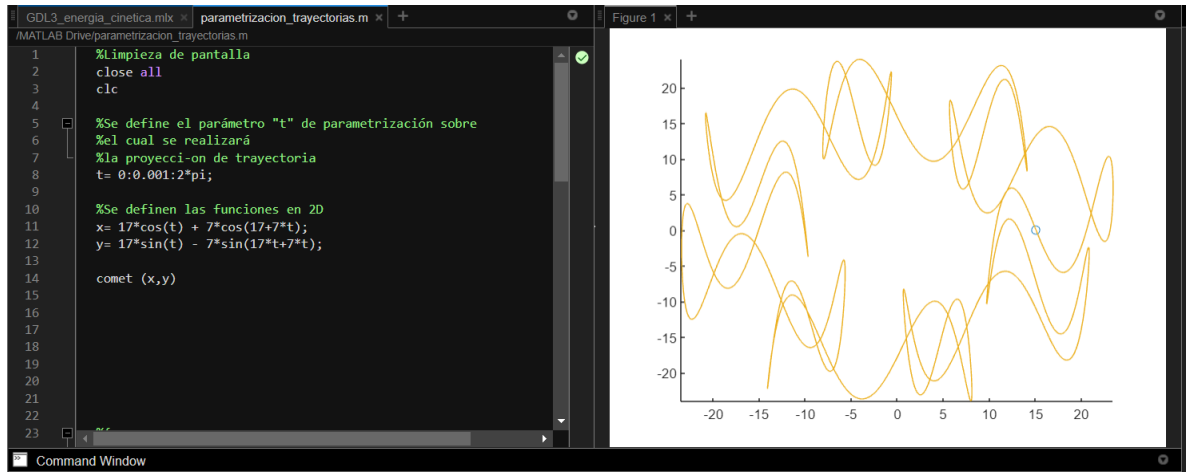
3. c) $x=3\cos(t)-\cos(3t)$, $y=4\sin(3t)$, $t \in [0, 2\pi]$



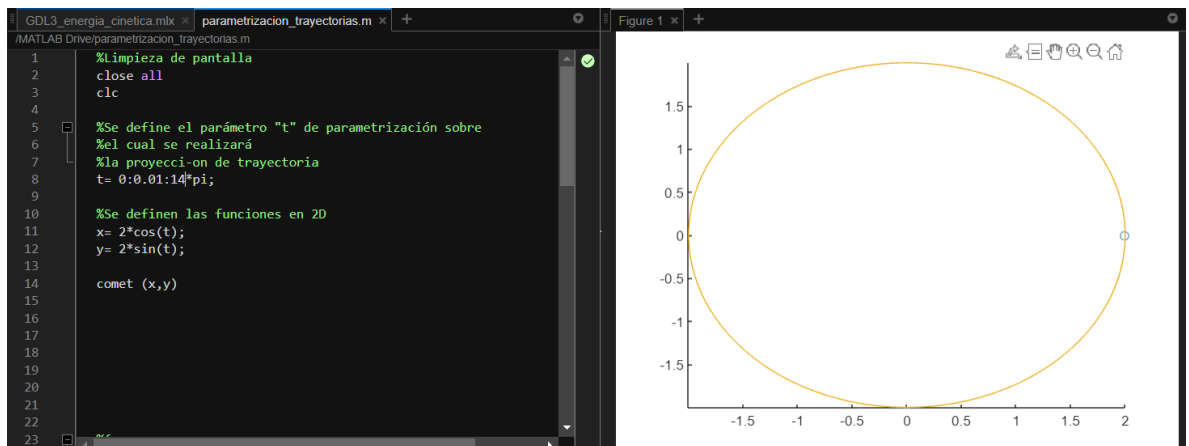
4. d) $x = \cos(t) + 1/2\cos(7t) + 1/3\sin(17t)$, $y = \sin(t) + 1/2\sin(7t) + 1/3\cos(17t)$, $t \in [0, 2\pi]$



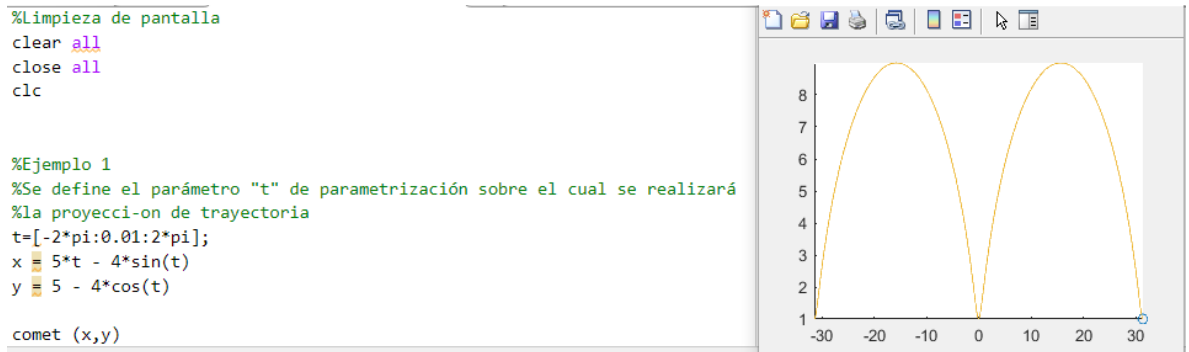
5. e) $x=17\cos(t)+7\cos(17+7t)$, $y = 17\sin(t) - 7\sin(17t+7t)$, $t \in [0, 2\pi]$



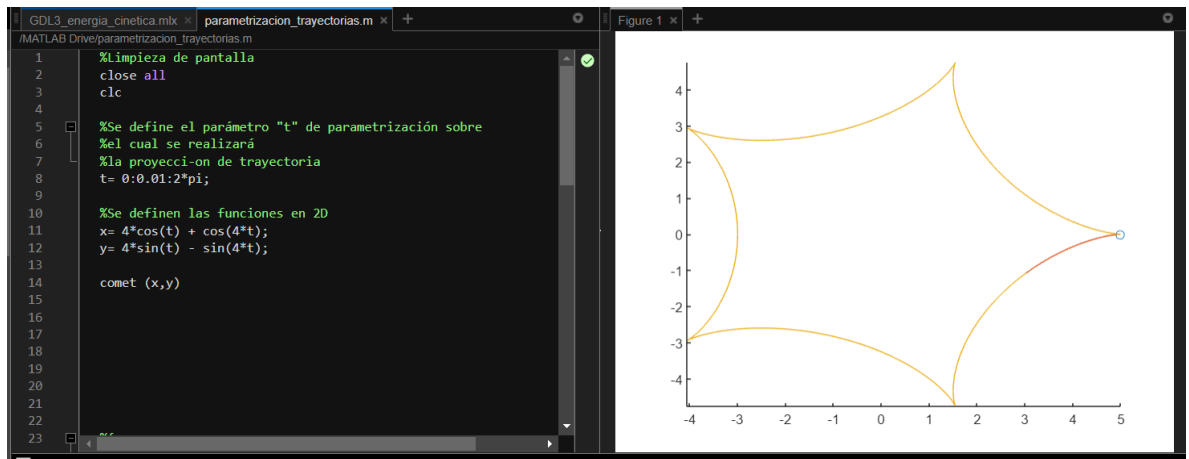
6. f) $x = 2\cos(t)$, $y = 2\sin(t)$, $t \in [0, 14\pi]$



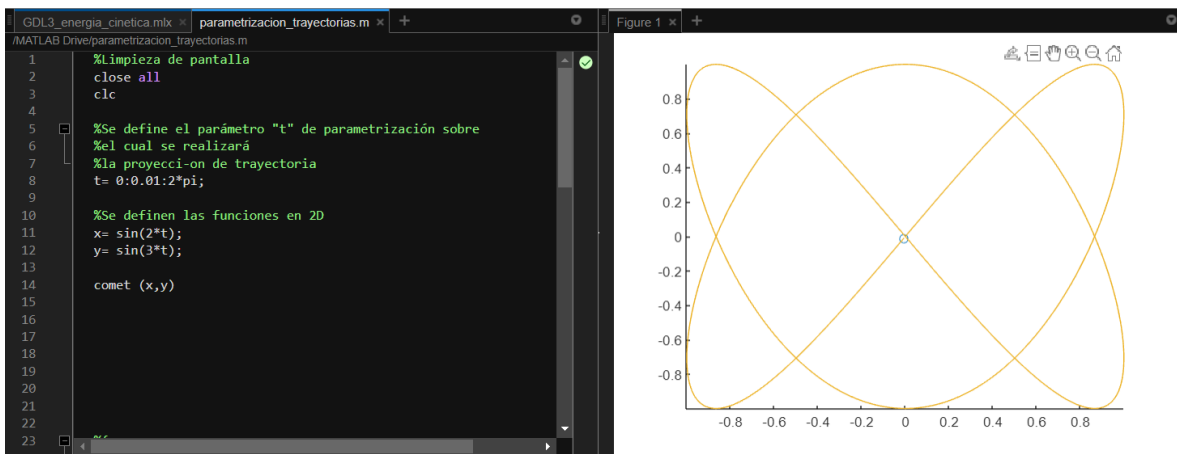
7. g) $x = 5t - 4\sin(t)$, $y = 5 - 4\cos(t)$, $t \in [-2\pi, 2\pi]$



8. h) $x = 4\cos(t) + \cos(4t)$, $y = 4\sin(t) - \sin(4t)$, $t \in [0, 2\pi]$



9. i) $x = \sin(2t)$, $y = \sin(3t)$, $t \in [0, 2\pi]$



10. j) $x = \sin(4t)$, $y = \sin(5t)$, $t \in [0, 2\pi]$

