

Centro universitario de Ciencias Exactas e Ingenierías



INRO

Robótica Móvil

Actividad 1 – Monociclo

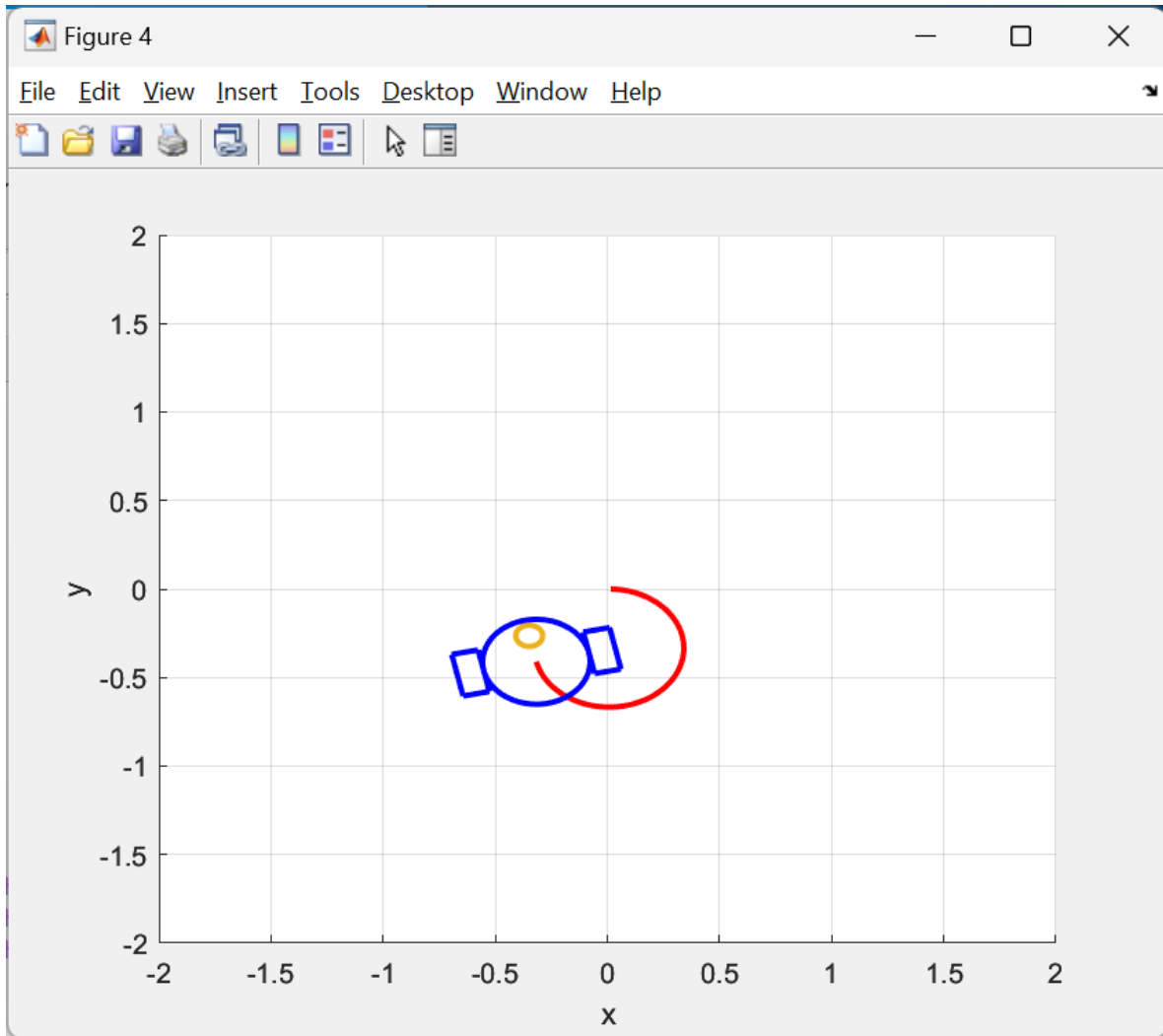
Julio Alexis González Villa

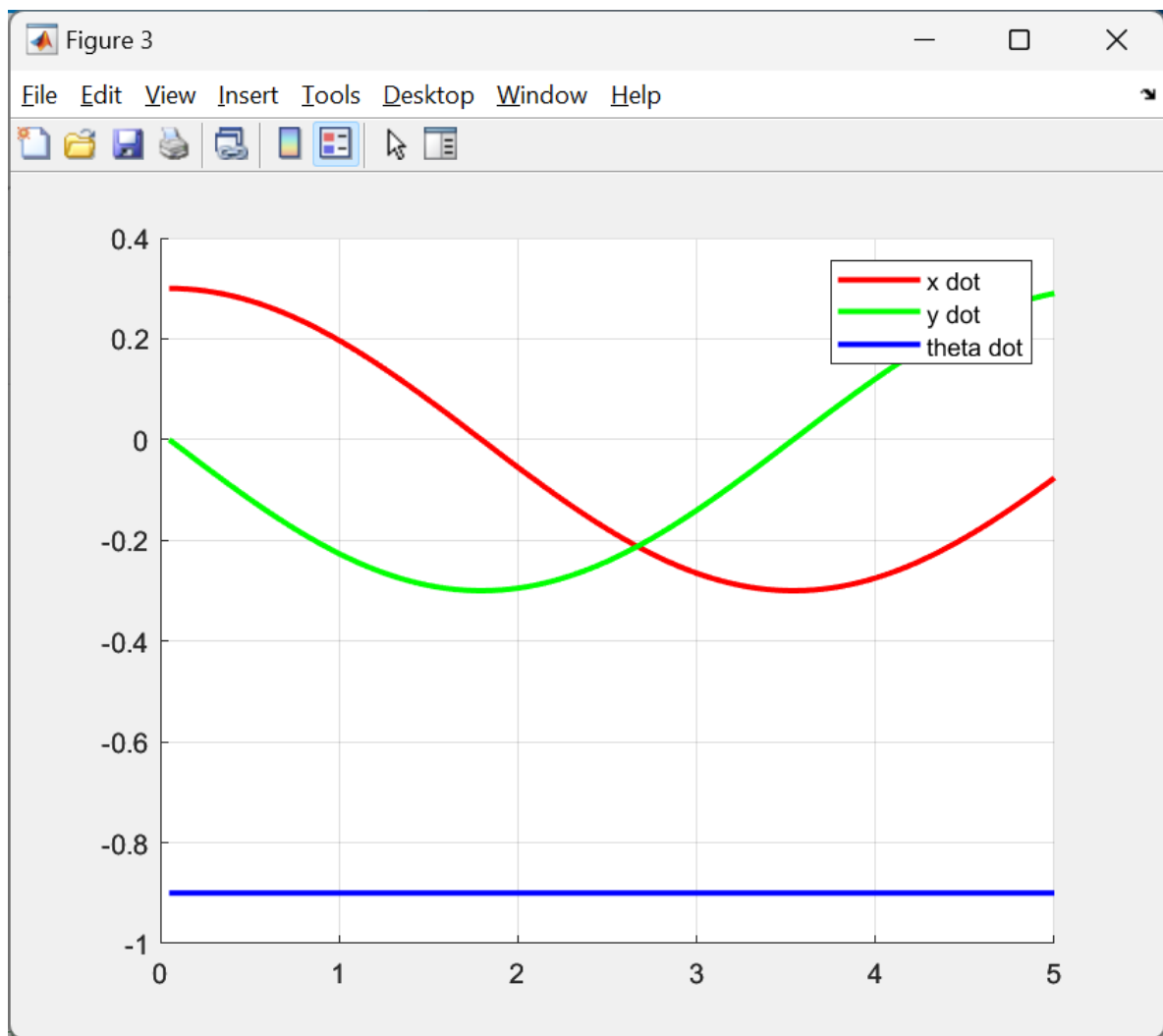
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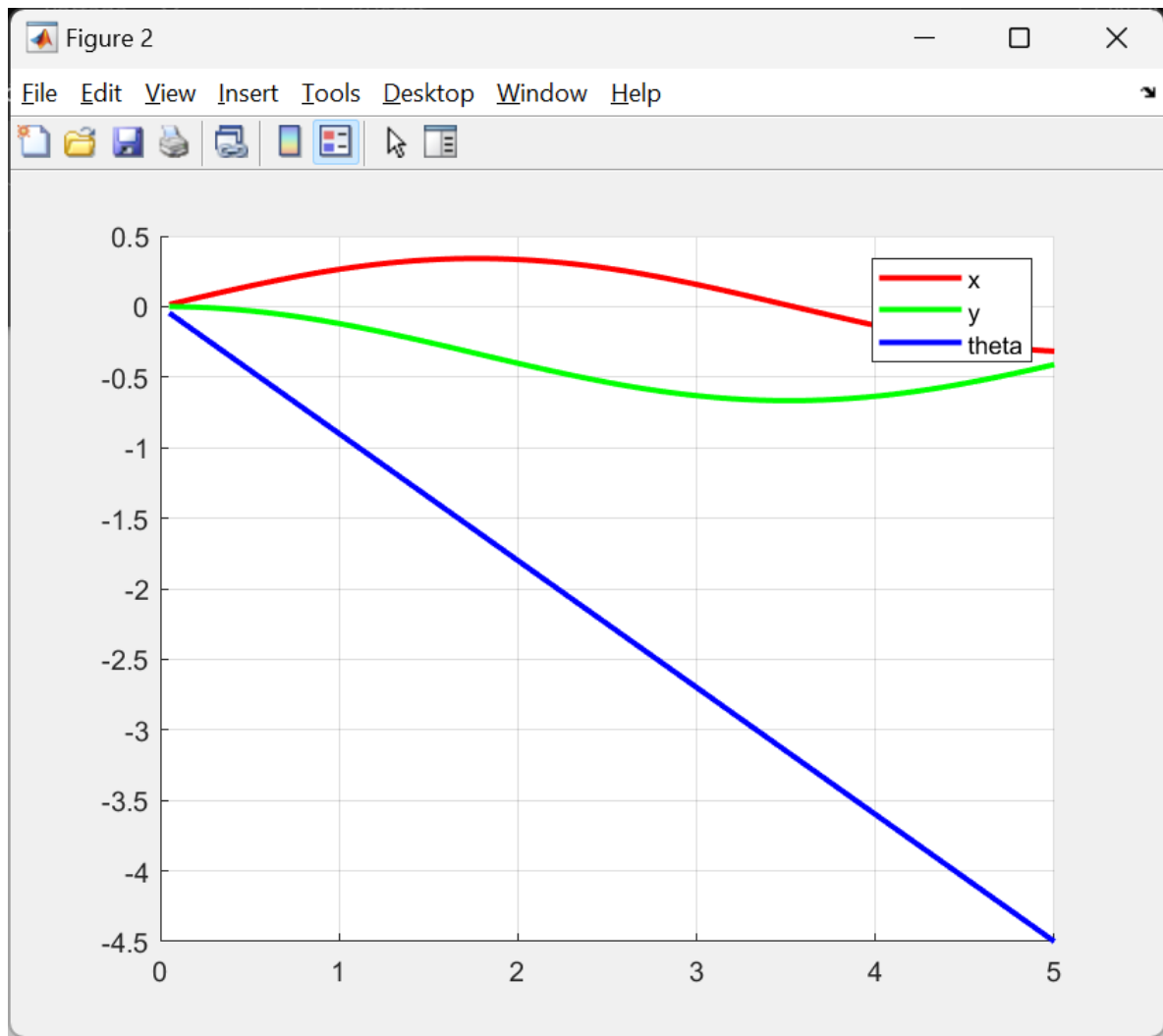
Objetivo: Implementa una simulación del modelo monociclo a lazo abierto.

Resultados

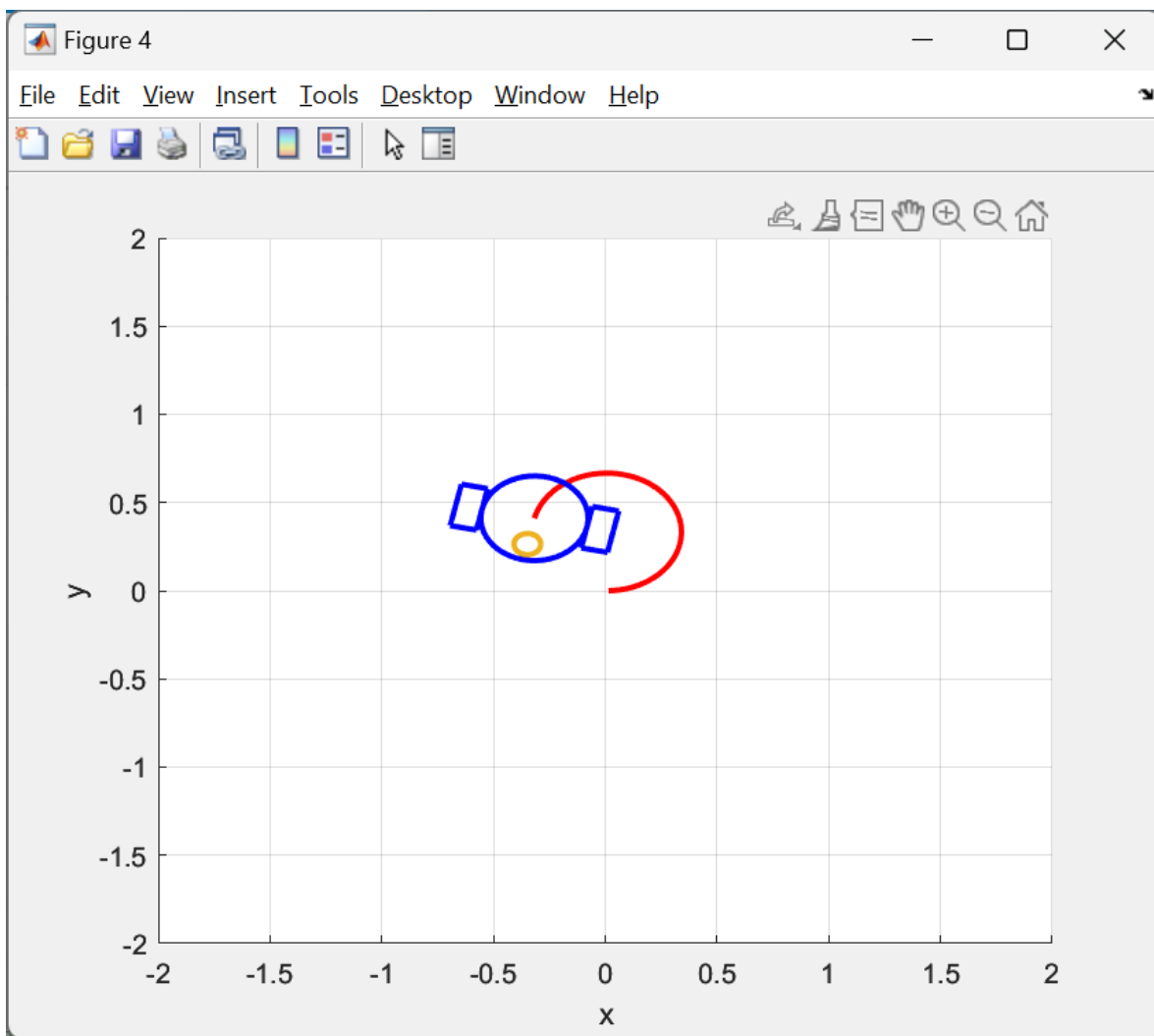
- $v, w \leftarrow 0.3, -0.9$

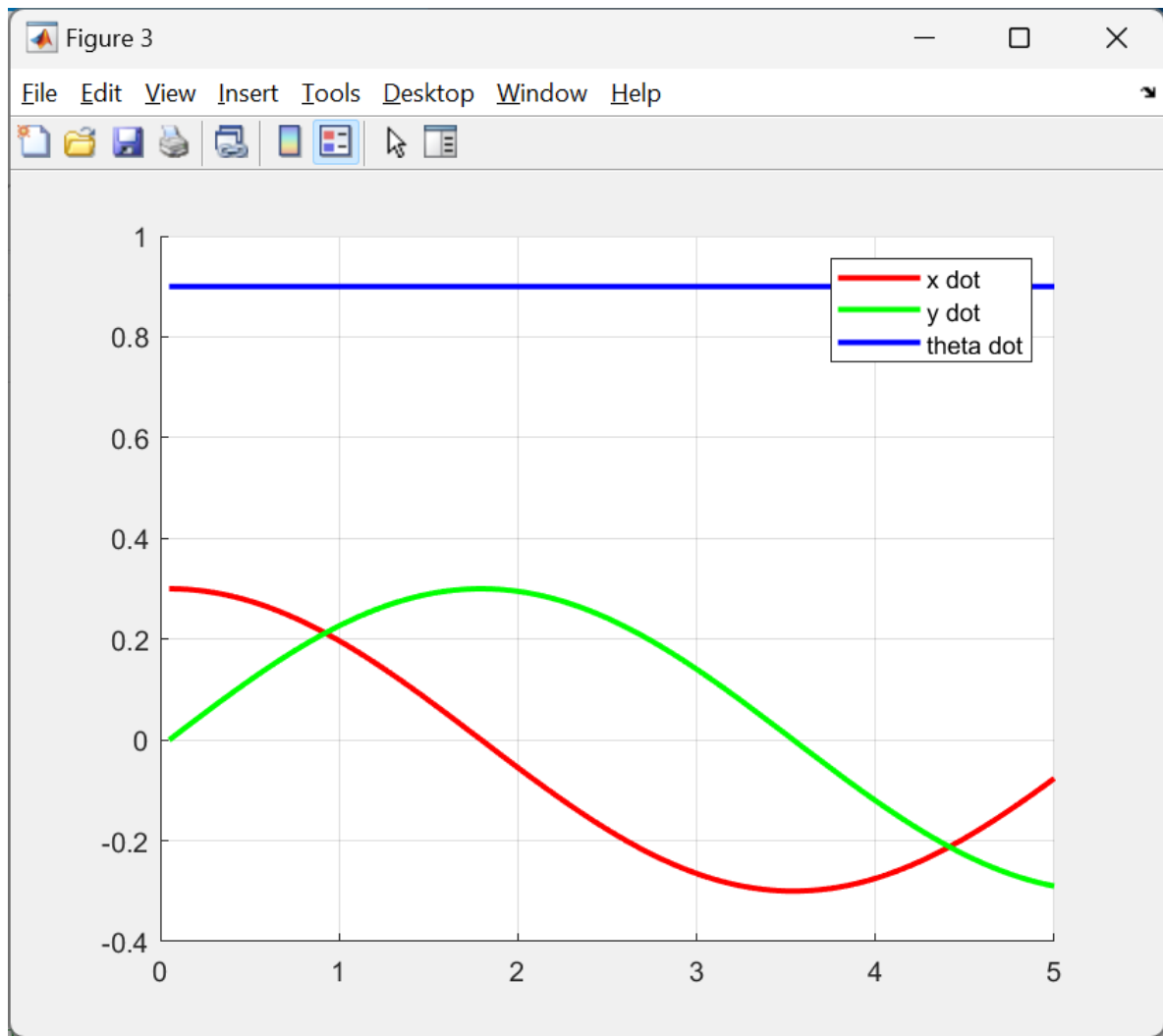


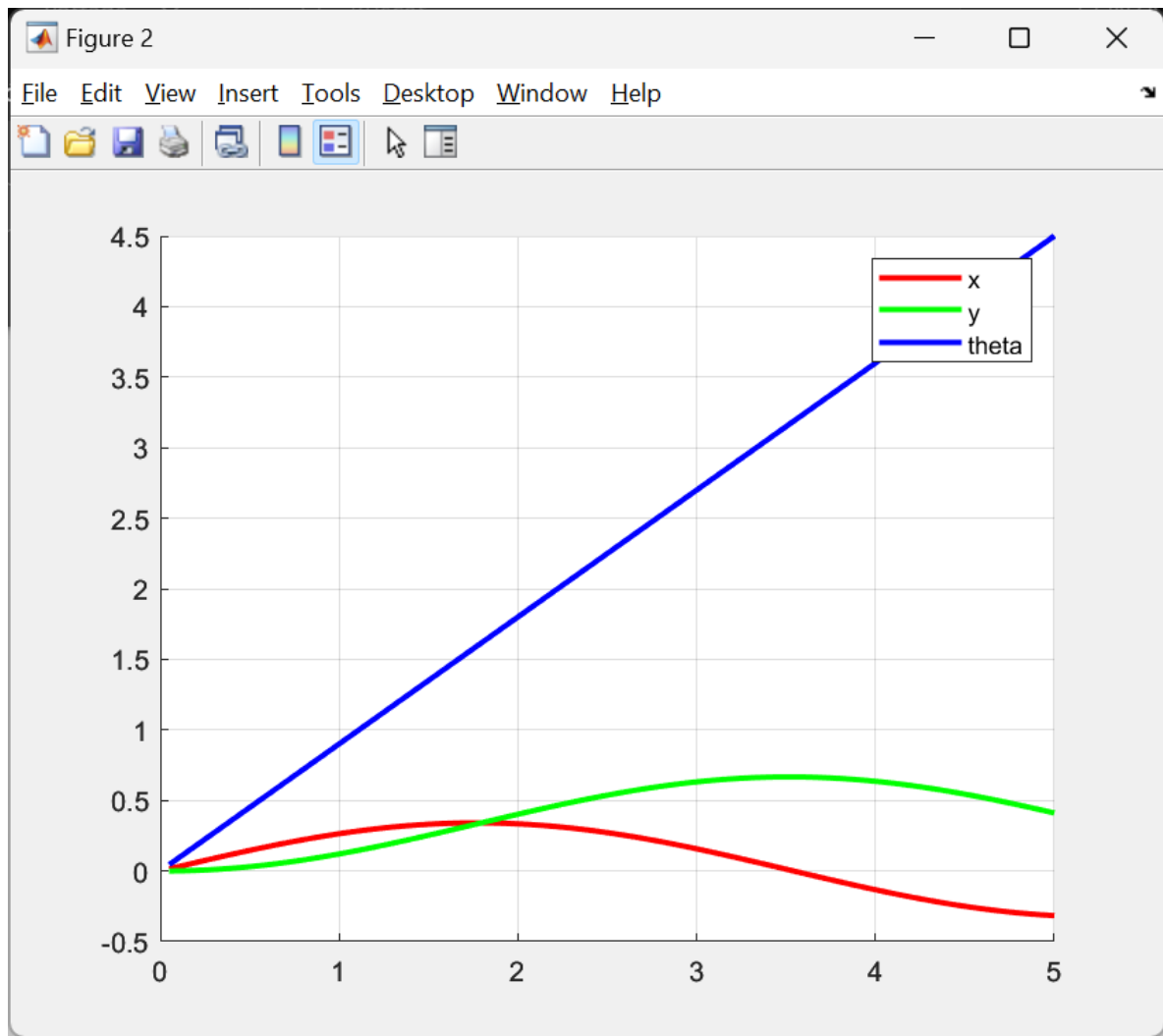




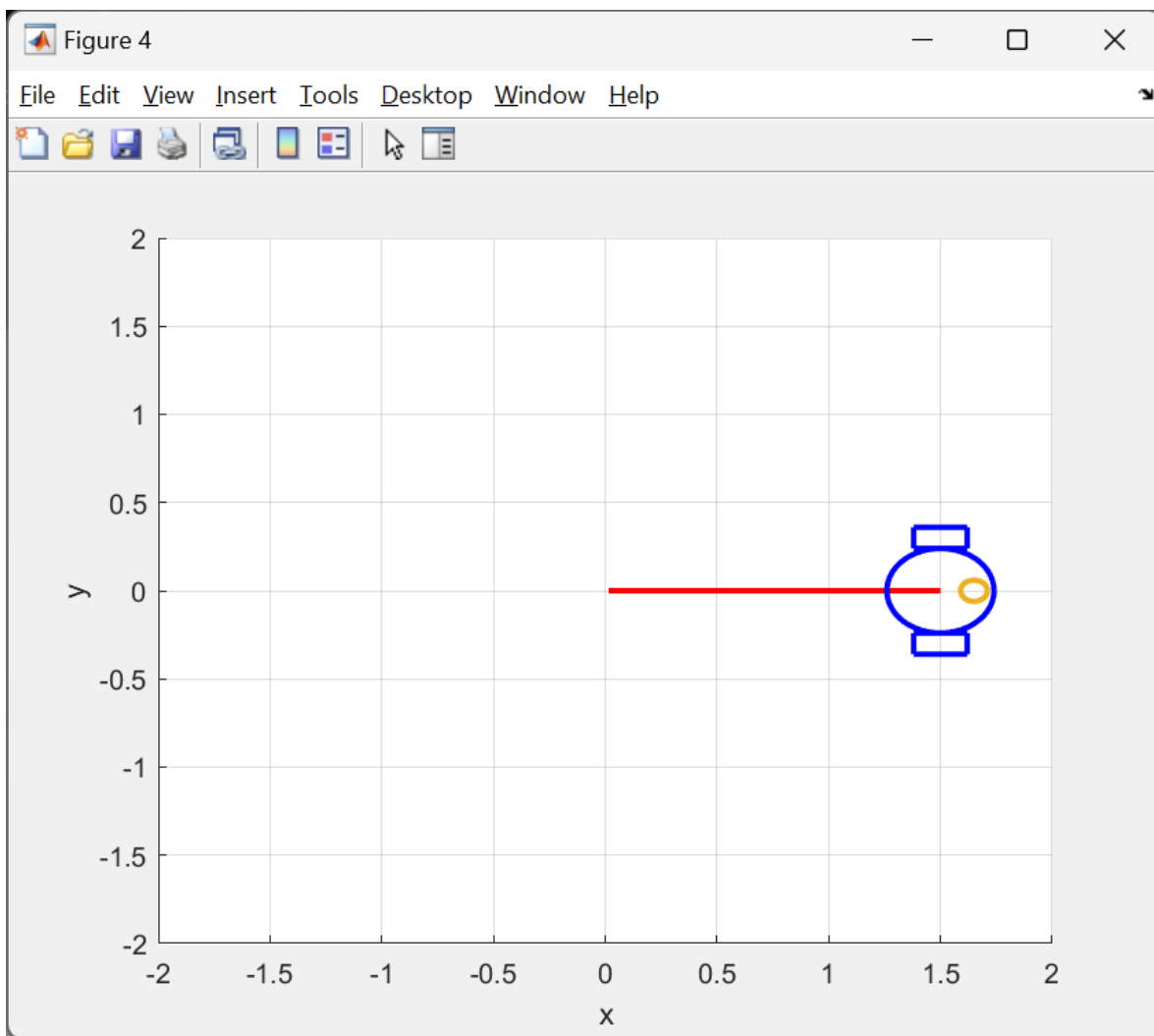
- $\mathbf{v, w} \leftarrow 0.3, 0.9$

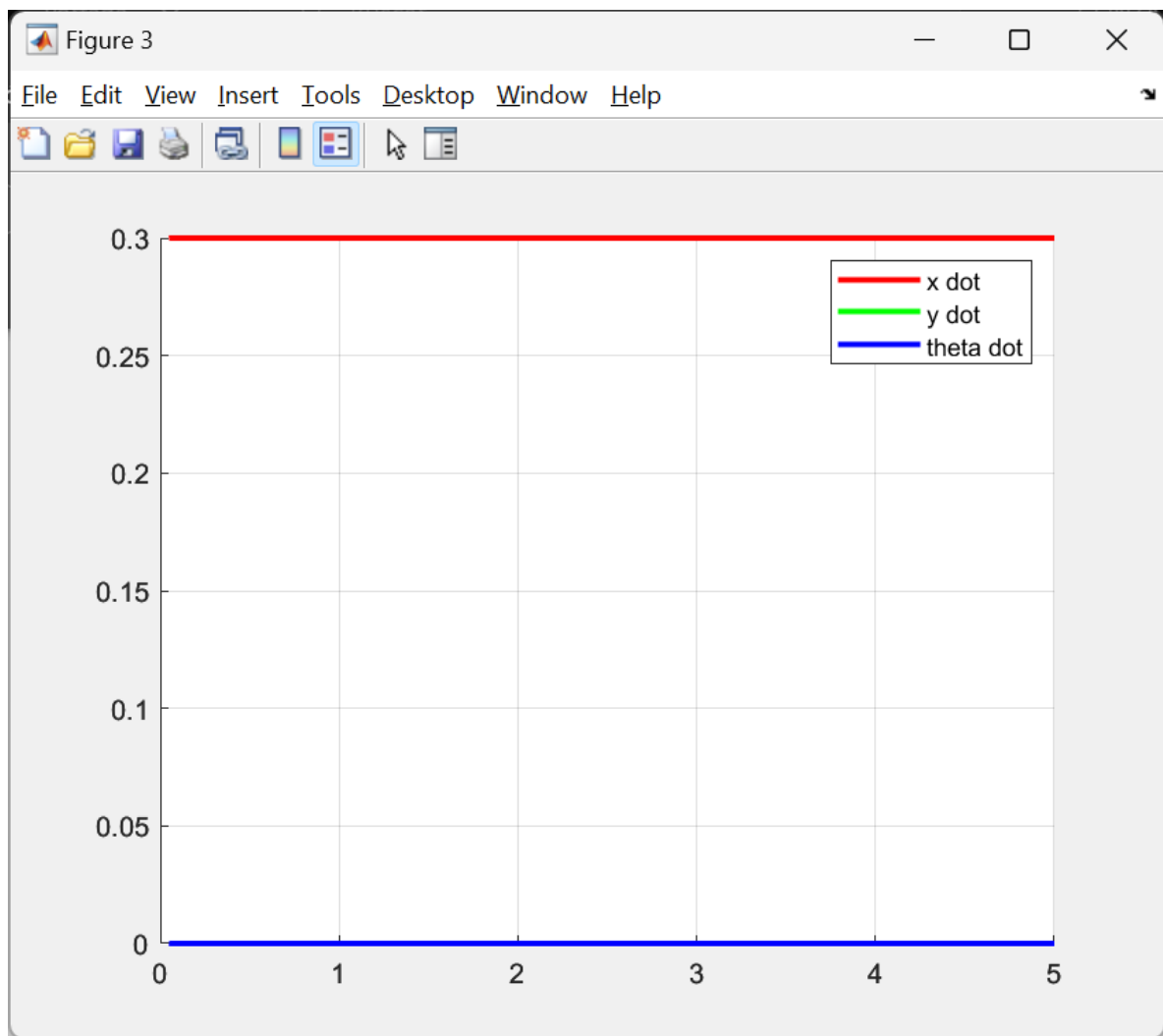


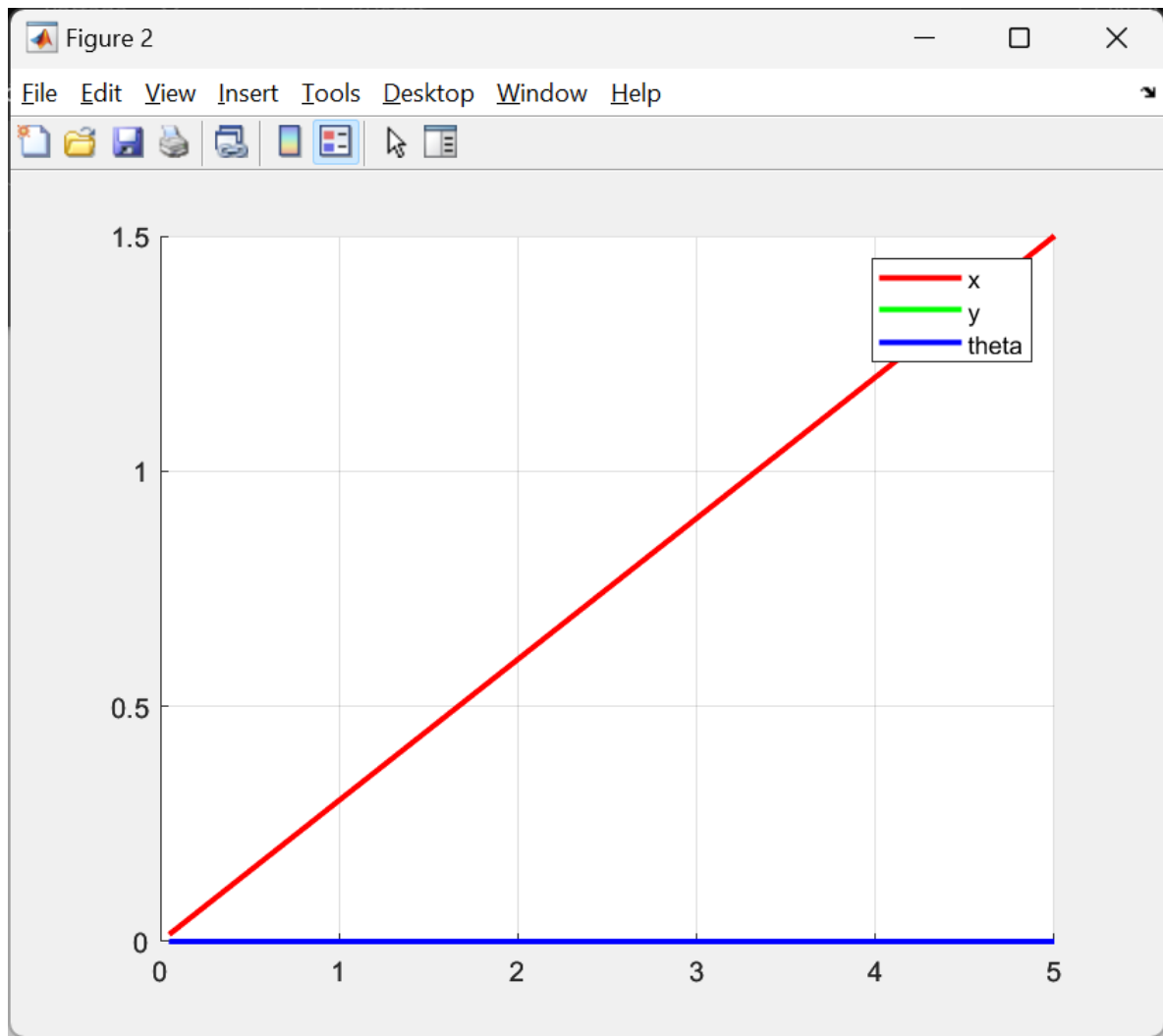




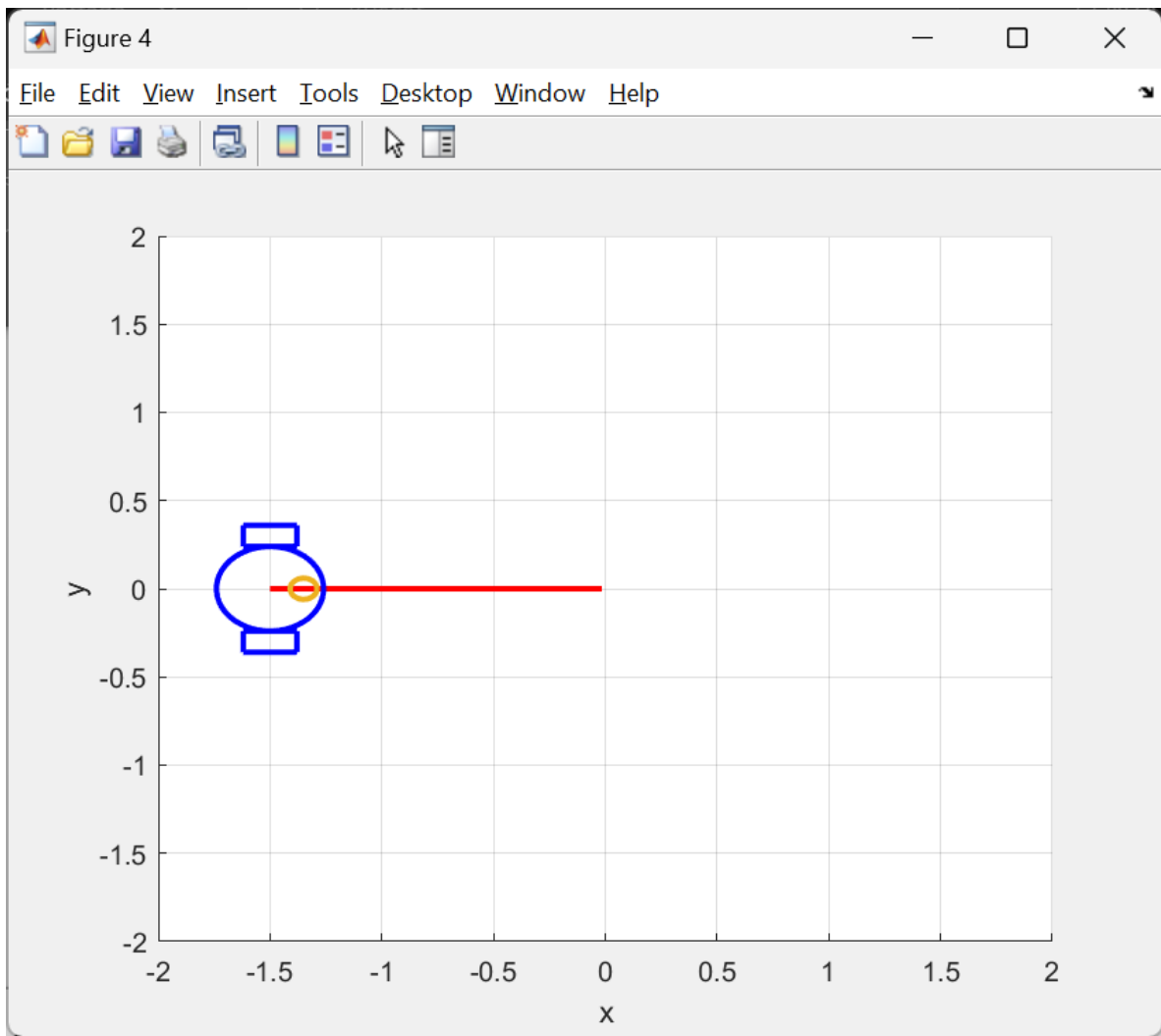
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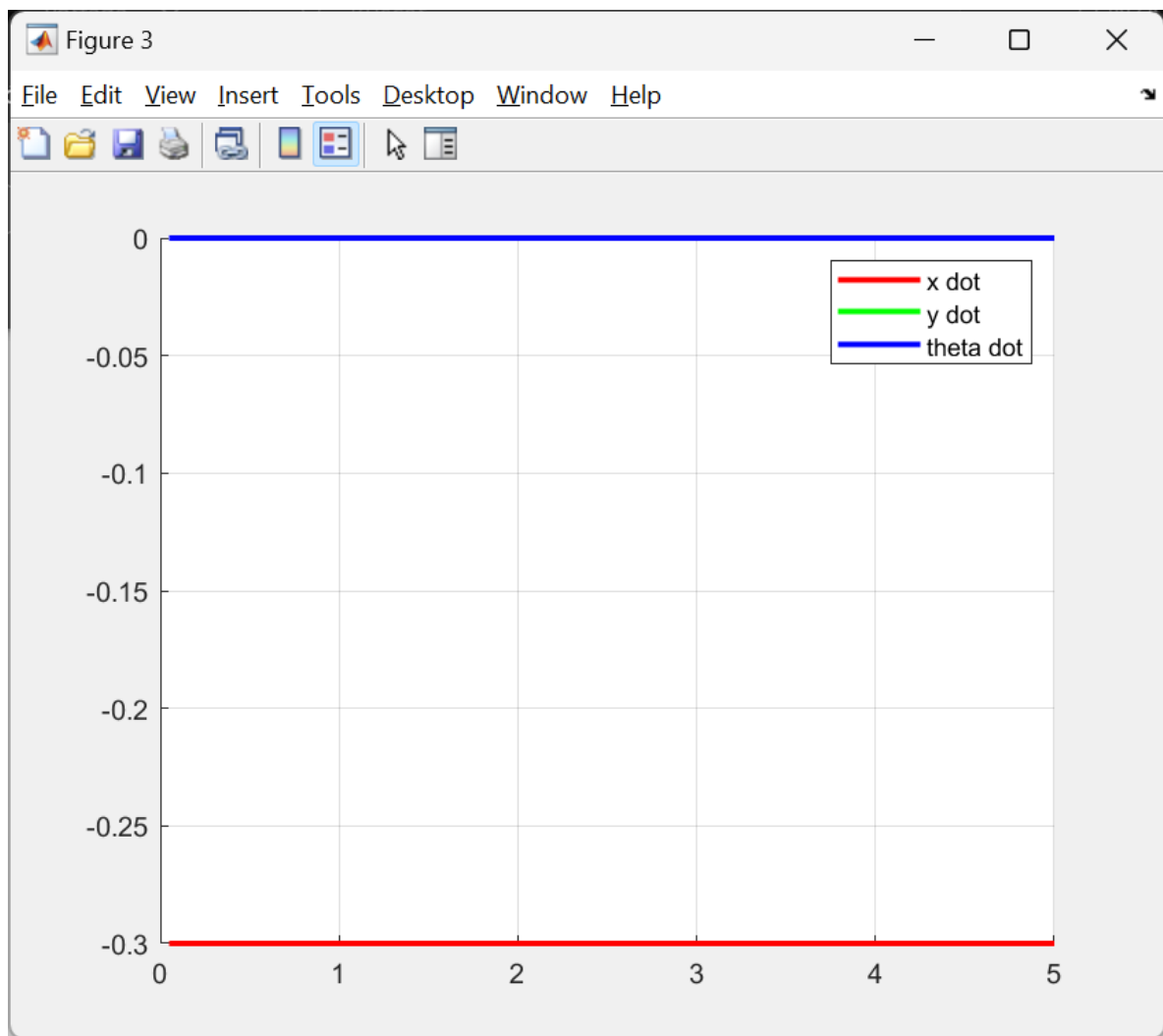


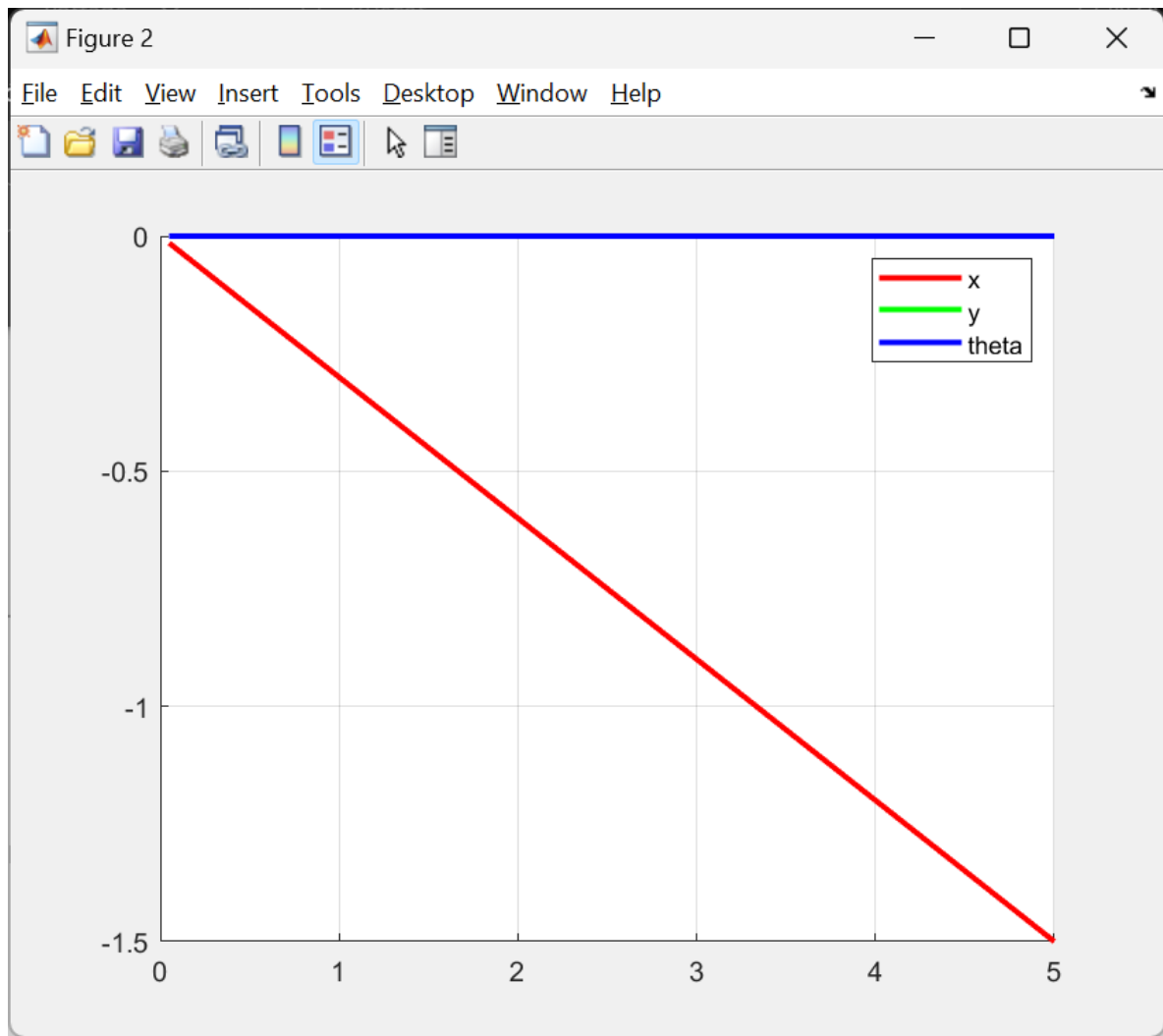




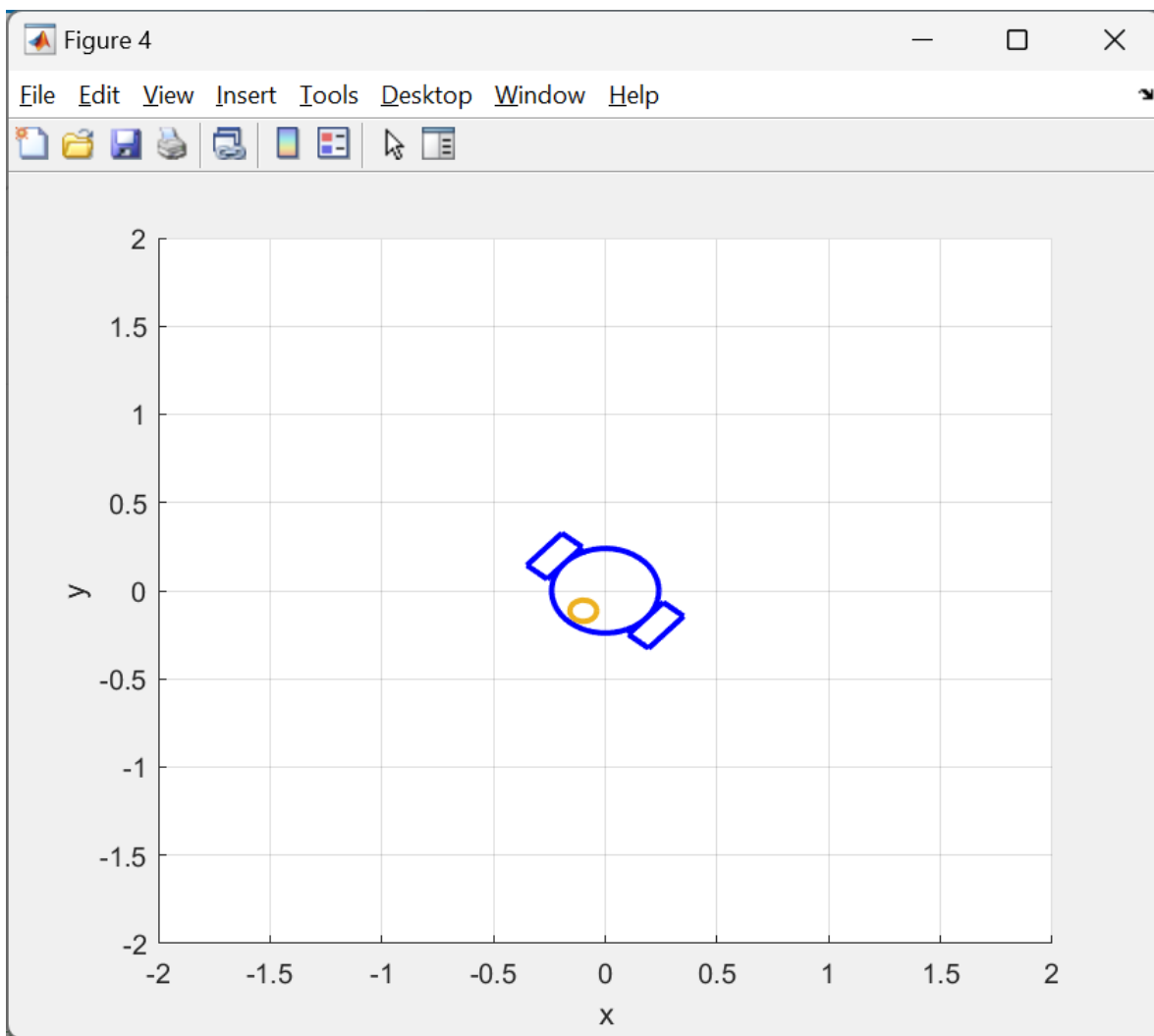
- $\mathbf{v}, \mathbf{w} \leftarrow -0.3, 0.0$

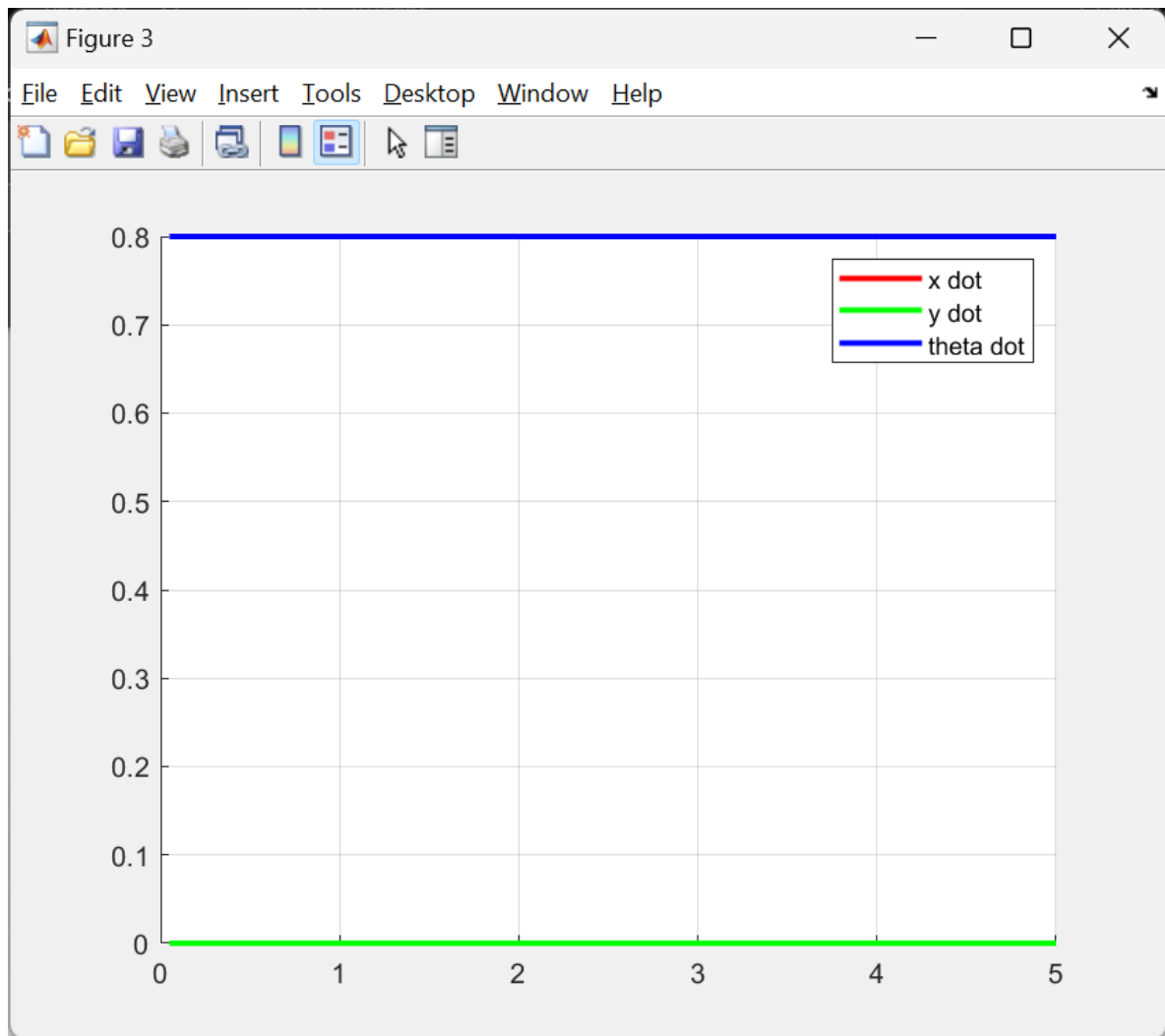


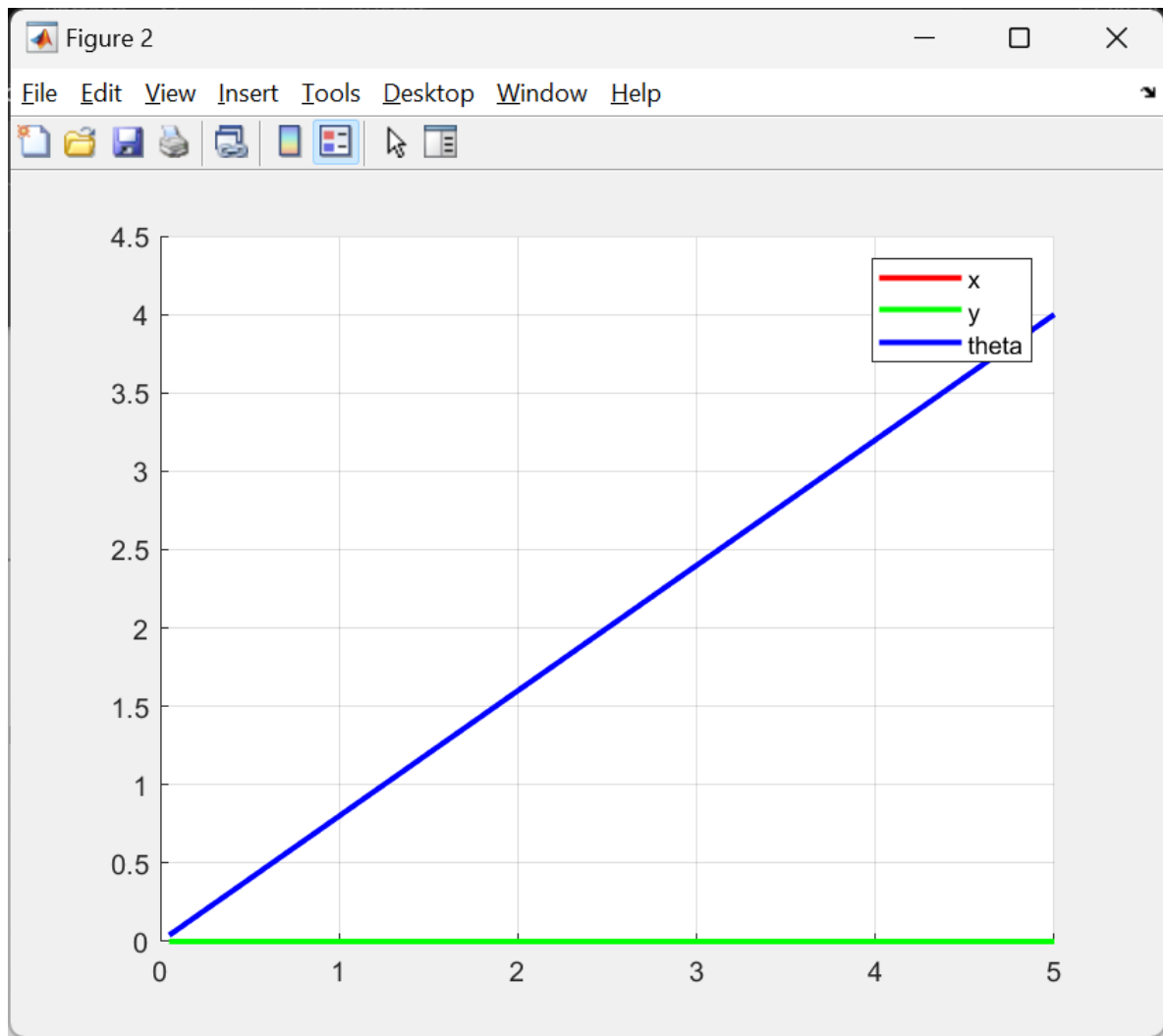




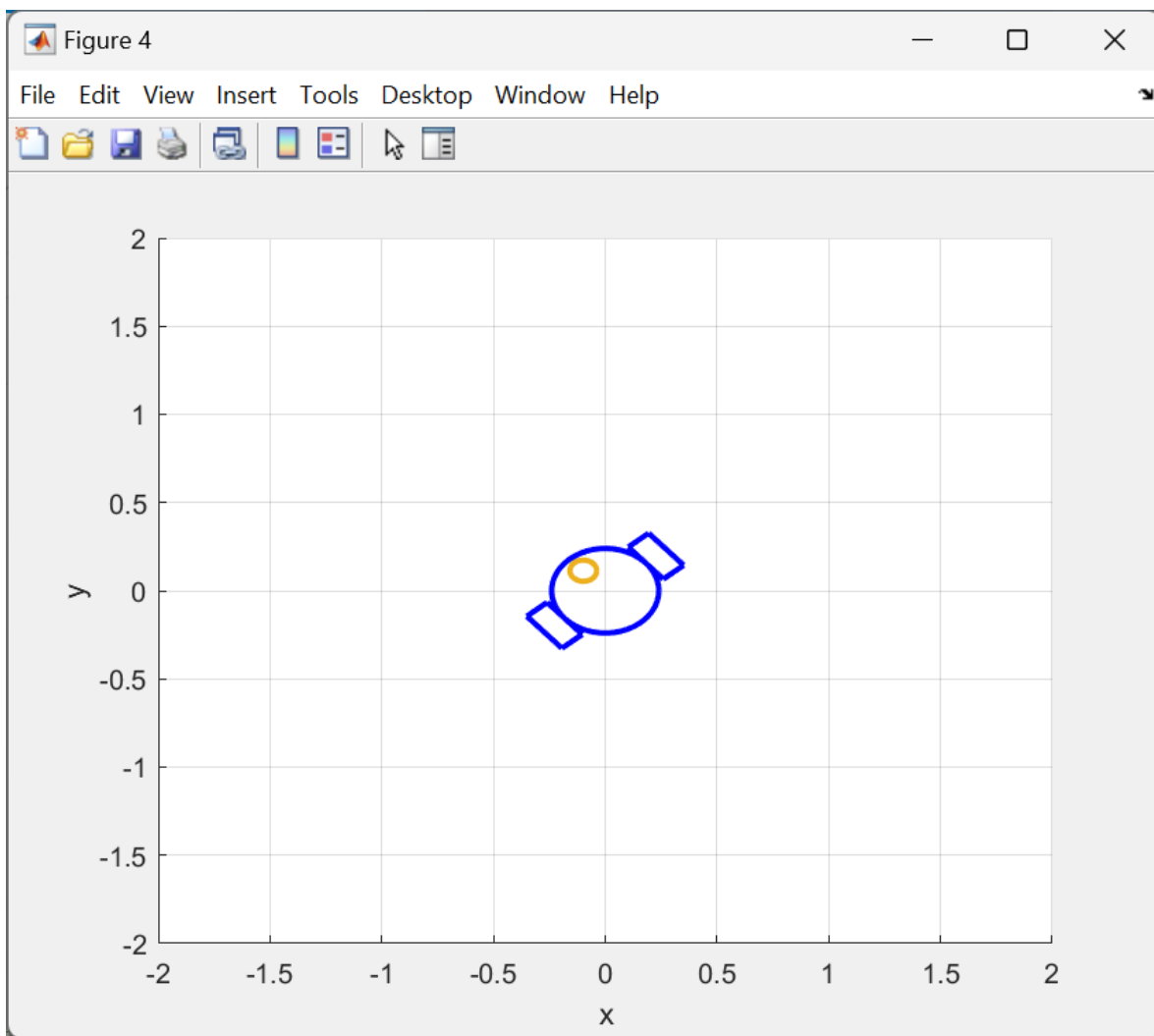
- $v, w \leftarrow 0.0, 0.8$

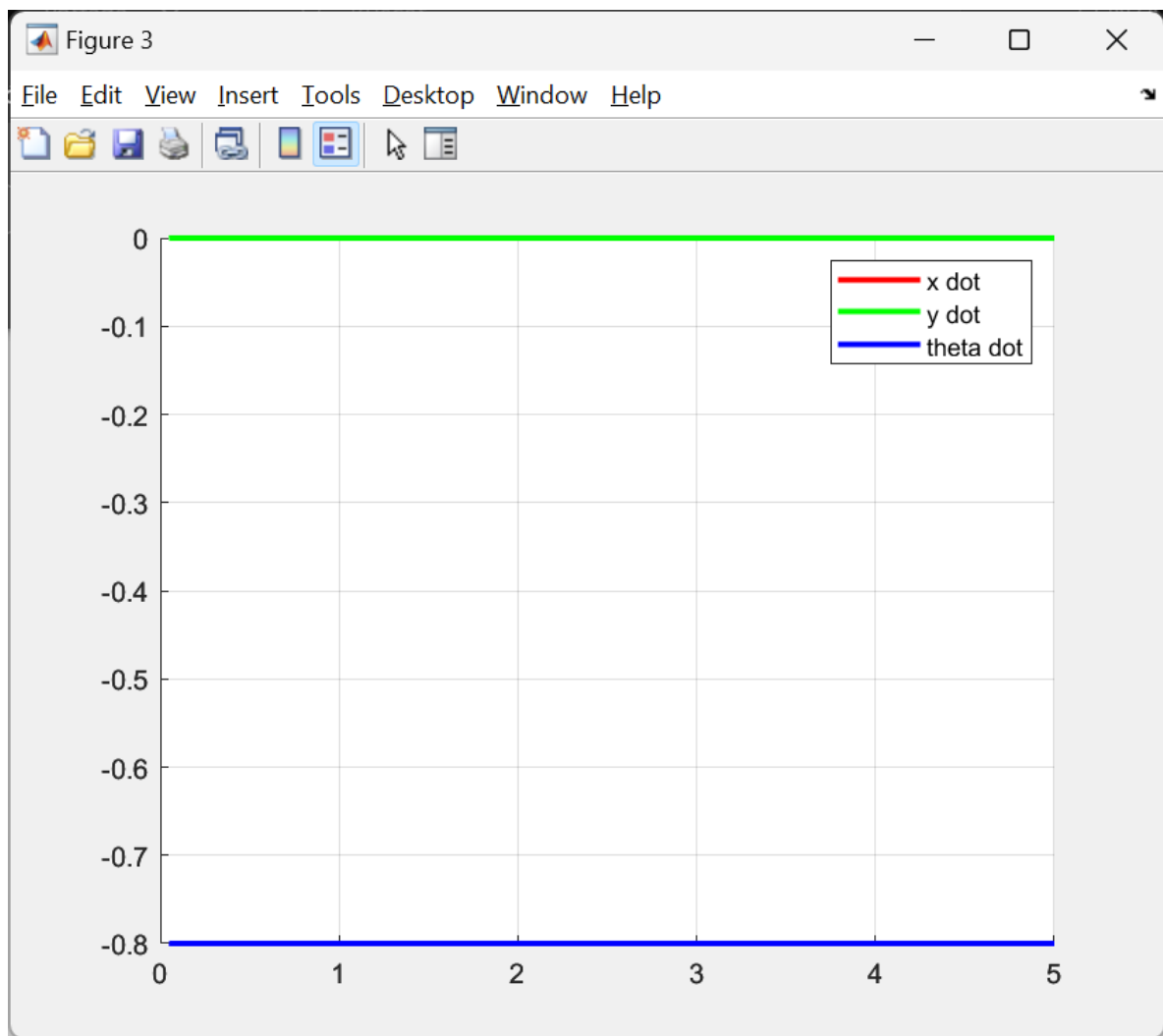


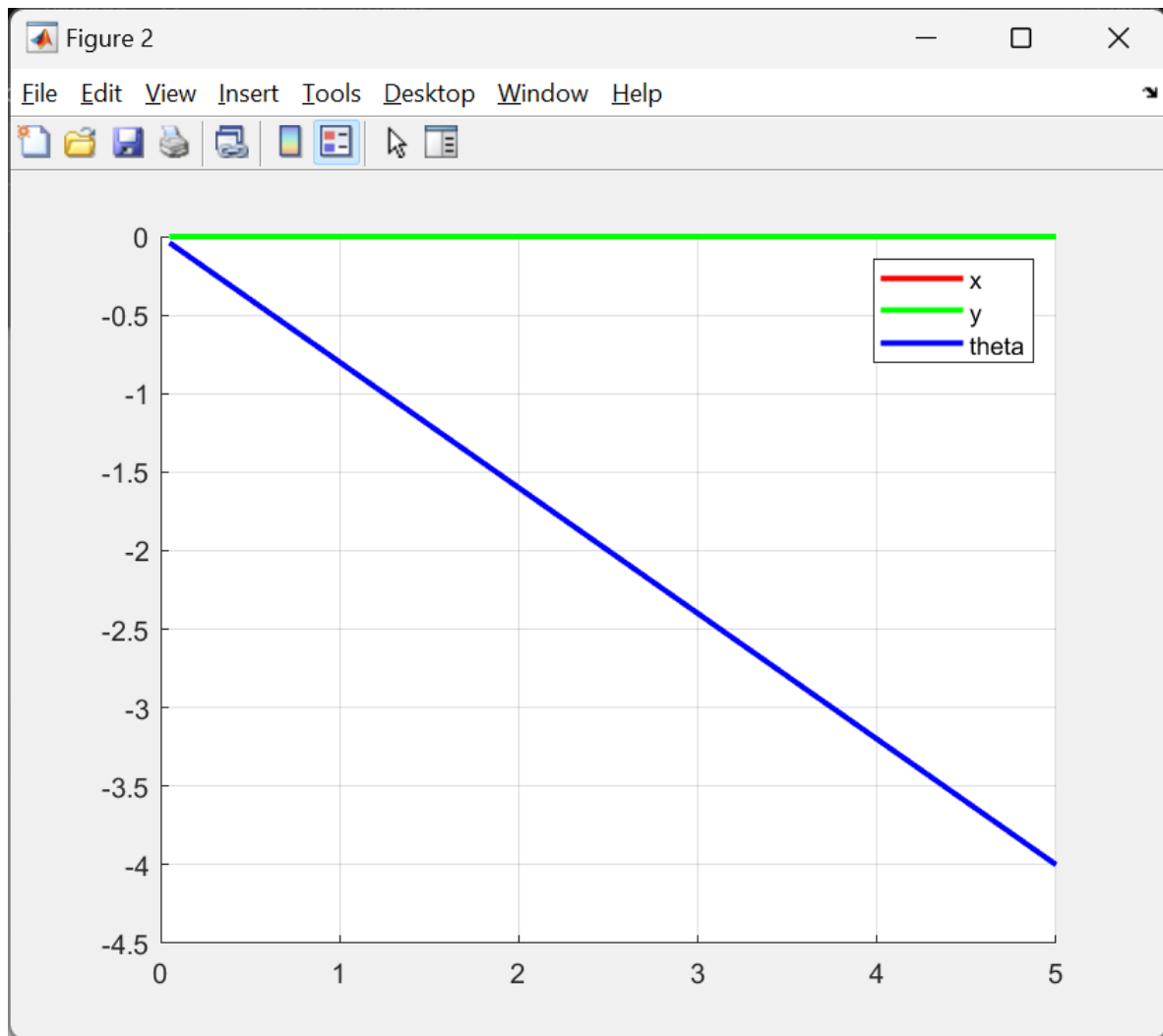




- $\mathbf{v}, \mathbf{w} \leftarrow 0.0, -0.8$







Conclusión

Aprendimos el funcionamiento del monociclo y como modelarlo utilizando su modelo cinemático. Además de como interpretar sus gráficas de posición y velocidad