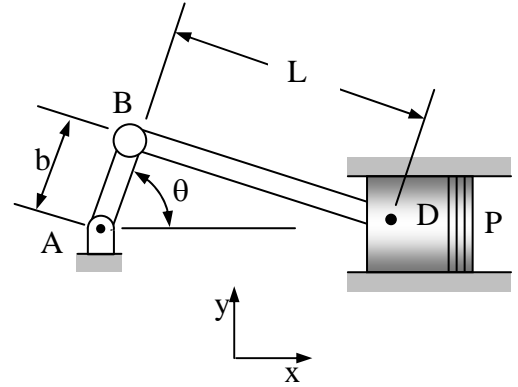


Problem P6

In the engine system shown $L = 250$ mm and $b = 100$ mm. During a test of the system, crank AB is made to rotate with a constant angular velocity of 600 rpm counterclockwise. Plot the angular velocity of bar BD and the velocity of point D as functions of the crank angle θ .



Hints:

- You will need to write your position vectors for some general angle θ .
- Use the vector algebra approach

A plot for the velocity of point D is shown below:

