Exercise:

Find a state space realization of the second order transfer function defined below:

$$G(s) = \frac{9}{s^2+6s+19}$$

Hint: use 'tf2ss'



Exercise:

- z For the new system (in state space form), say sysSS, check if
 - The eigenvalues of the matrix A and the poles of the transfer function G(s) are the same
 - Use the A, B, C, D matrices of the system sysSS to obtain the transfer function

