**MATLAB Examples**

1. Pole-zero diagram:

num = [1 0]; % Define numerator polynomial

den = [1 2 101]; % Define denominator polynomial

pzmap(num,den) % Plot pole-zero diagram

1. Unit Step Response:

num = [1 0]; % Define numerator polynomial

den = [1 2 101]; % Define denominator polynomial

step(num,den) % Plot the step response