```
%Transfer Function Analysis for High-Pass 6th Order Butterworth Filter
%ECE223 Sp19, Jennifer Jordan & David Lay
s = tf('s');
H = 1/
(2.53636*10^{-}19*s^{6}+1.23201*10^{-}15*s^{5}+2.99159*10^{-}12*s^{4}+4.60529*10^{-}9*s^{3}+4.7260)
%Figures:
figure(1);
bode(H);
title('Low-Pass Butterworth Filter Bode Plot');
figure(2);
impulse(H);
title('Low-Pass Butterworth Filter Impulse Response');
figure(3);
step(H);
title('Low-Pass Butterworth Filter Step Response');
figure(4);
pzplot(H);
title('Low-Pass Butterworth Filter Pole-Zero Plot');
H =
  2.536e-19 \text{ s}^6 + 1.232e-15 \text{ s}^5 + 2.992e-12 \text{ s}^4 + 4.605e-09 \text{ s}^3
                                             + 4.726e-06 s^2 + 0.003075 s
 + 1
Continuous-time transfer function.
```









