

NAME:

Honor Code:

KEY

Find the number of poles in the LHP, RHP & $j\omega$ axis for the following polynomial:

$$2s^4 + 6s^3 + 12s^2 + 12s + 16$$

s^4	2	12	16
s^3	$6 \cdot 1$	$12 \cdot 2$	
s^2	$8 \cdot 1$	$16 \cdot 2$	
s^1	0 2	0 0	
s^0	2		

ROZ w/ no sign changes

2 $j\omega$ poles
2 LHP poles