

## Chapter 2

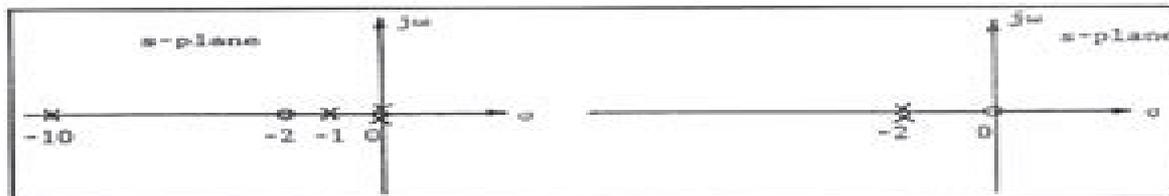
**2-1 (a)** Poles:  $s = 0, 0, -1, -10$ ;

Zeros:  $s = -2, \infty, \infty, \infty$ .

**(b)** Poles:  $s = -2, -2$ ;

Zeros:  $s = 0$ .

The pole and zero at  $s = -1$  cancel each other.



**(c)** Poles:  $s = 0, -1 + j, -1 - j$ ;

Zeros:  $s = -2$ .

**(d)** Poles:  $s = 0, -1, -2, \infty$ .



**2-2) a)** 
$$G(s) = \frac{(s+1)}{s(s+2)(s+3)^2}$$

b) 
$$G(s) = \frac{s^2}{(s+1)(s+4)}$$

c) 
$$G(s) = \frac{s^2-1}{s^2(s+3)(s+4)^2}$$

**2-3)**

**MATLAB code:**

# Automatic Control Systems 9th Edition Solution

**Scott C. Dulebohn**



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