

Chapter 2

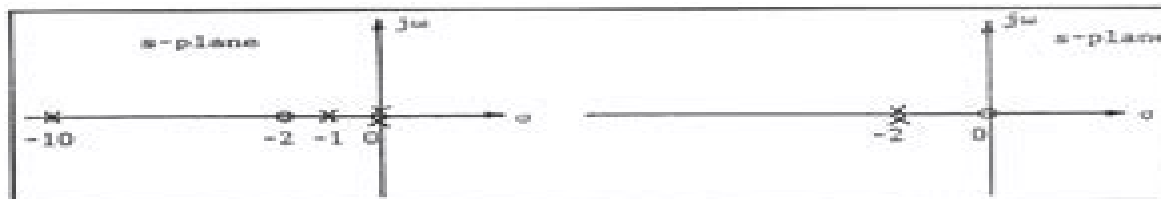
2-1 (a) Poles: $s = 0, 0, -1, -10$;

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

2-3)

MATLAB code:

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B Lingard



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