

HYDRAULIC SERVO-ACTUATOR

MATHEMATICAL MODELS OF PHYSICAL SYSTEMS

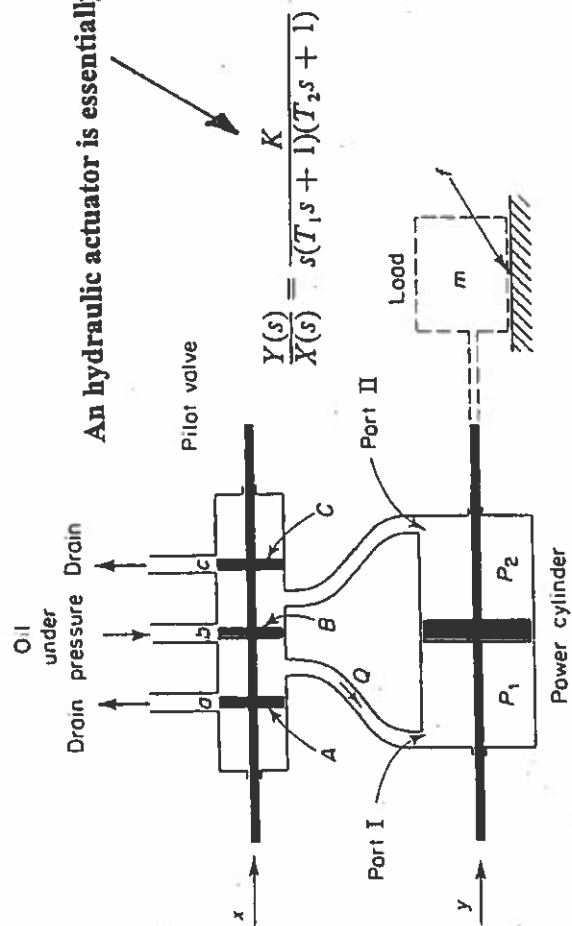
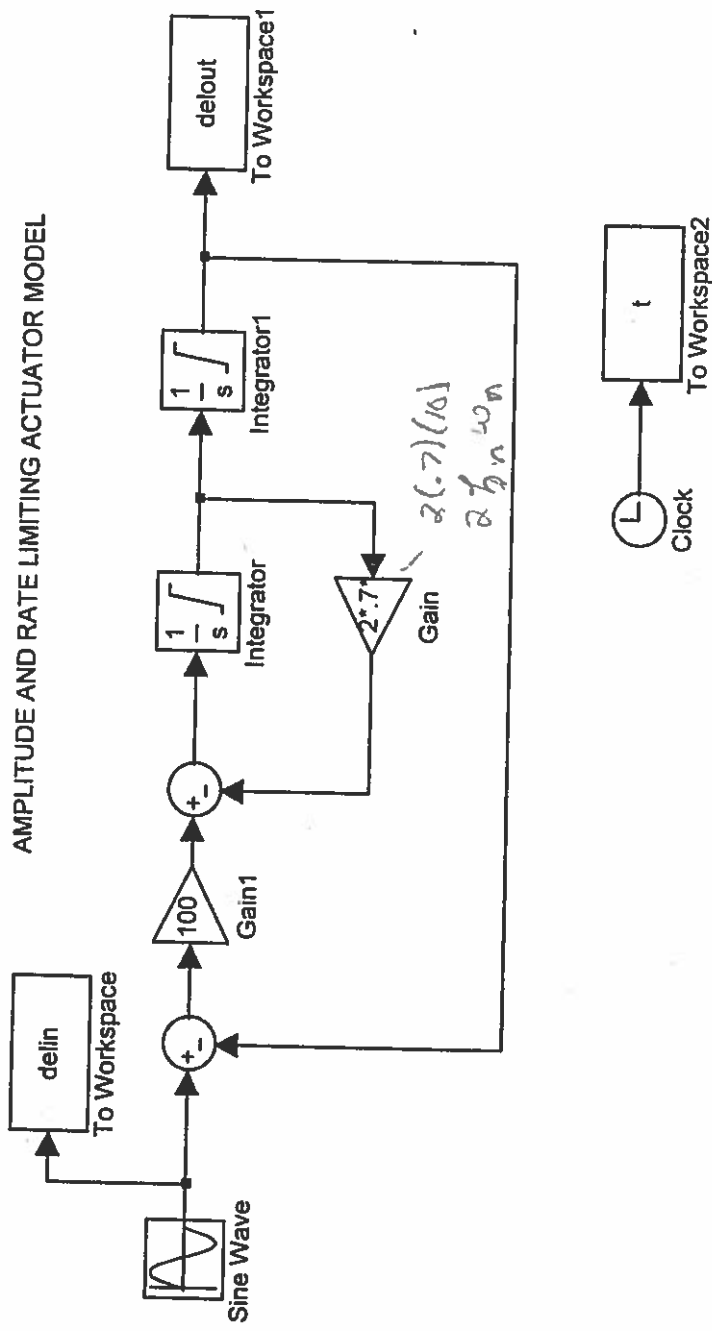
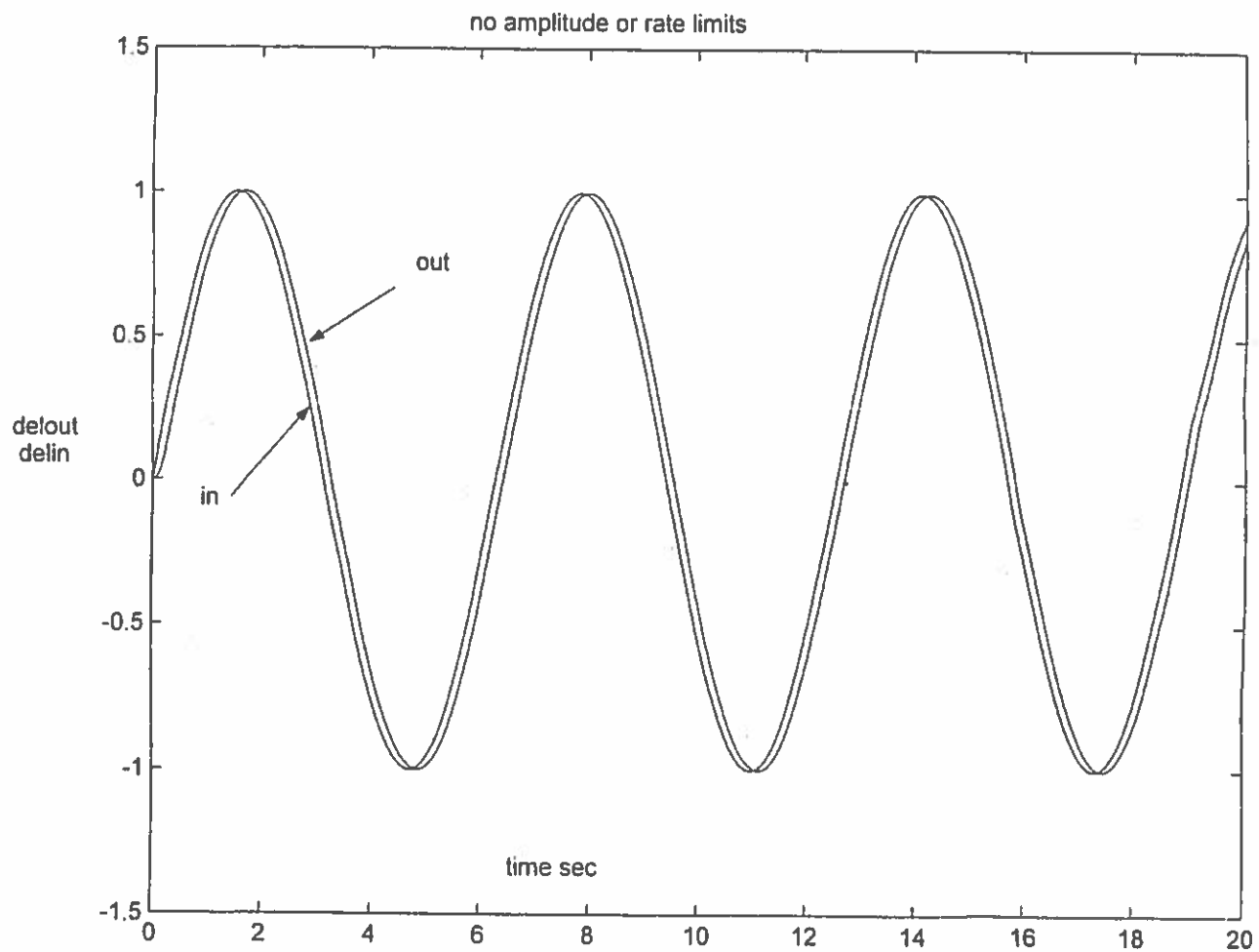


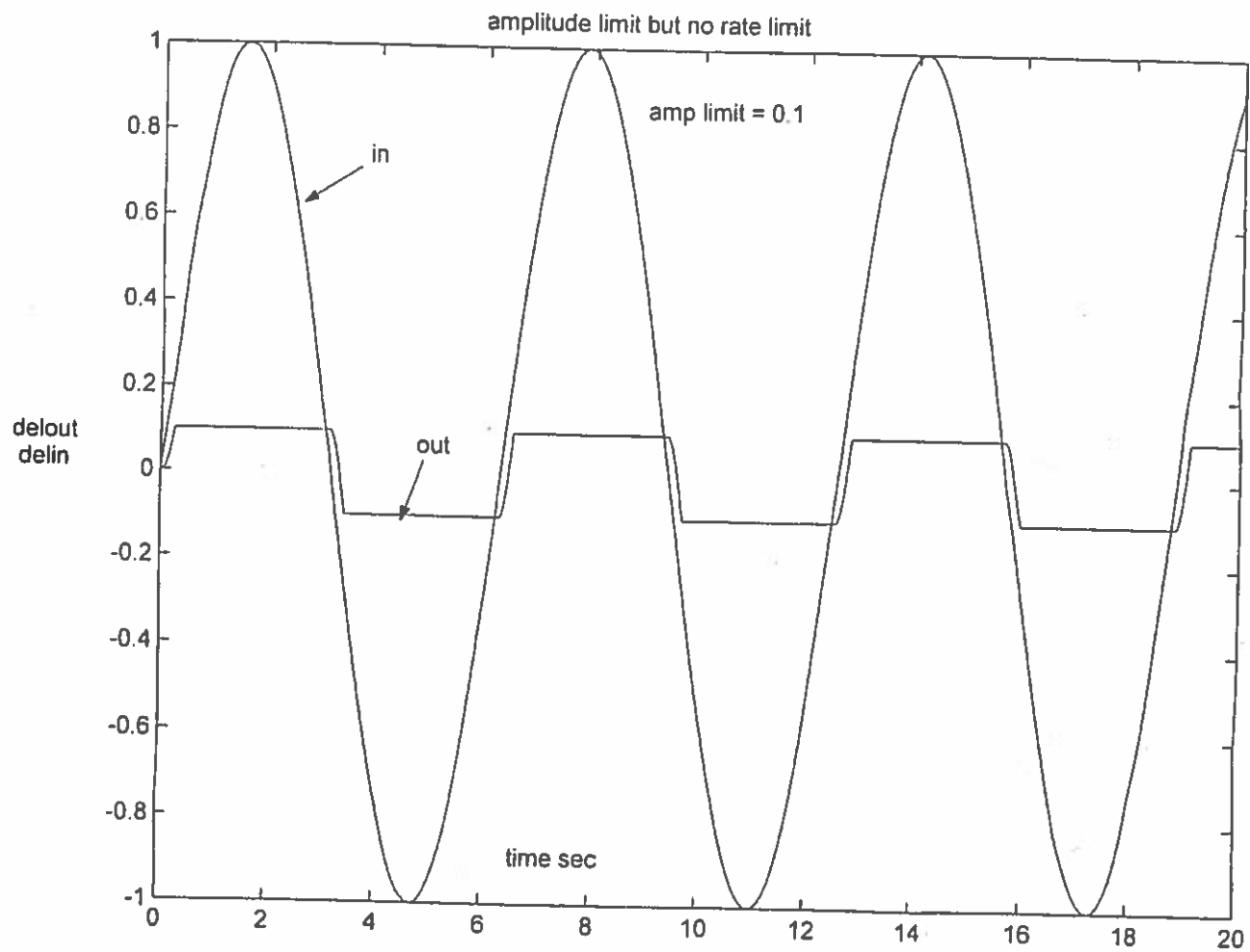
Fig. 4-12. Schematic diagram of a hydraulic servomotor.

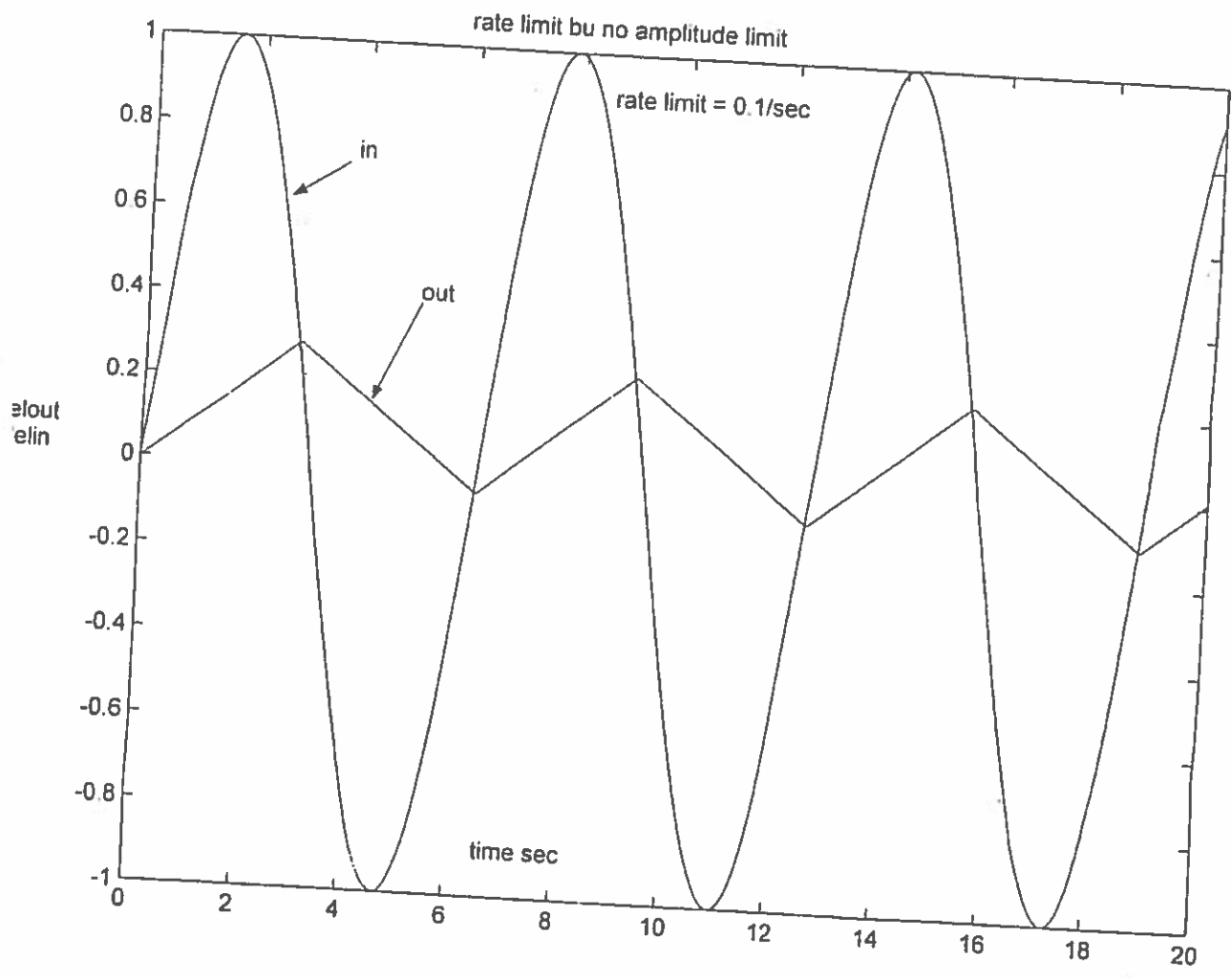


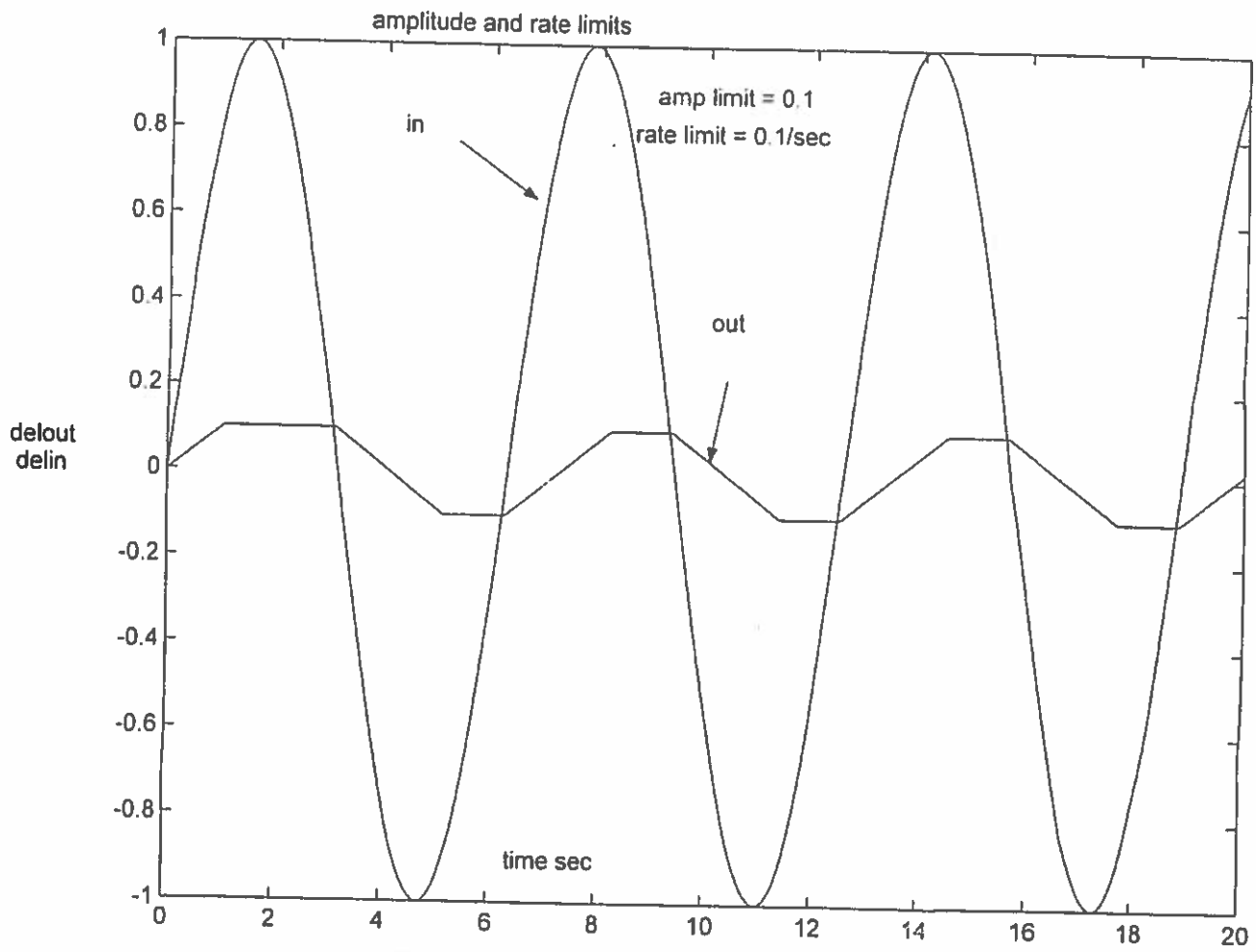
LINEAR ACTUATOR CHARACTERISTICS

omega $n = 10$ rad/sec
 zeta $n = 0.7$



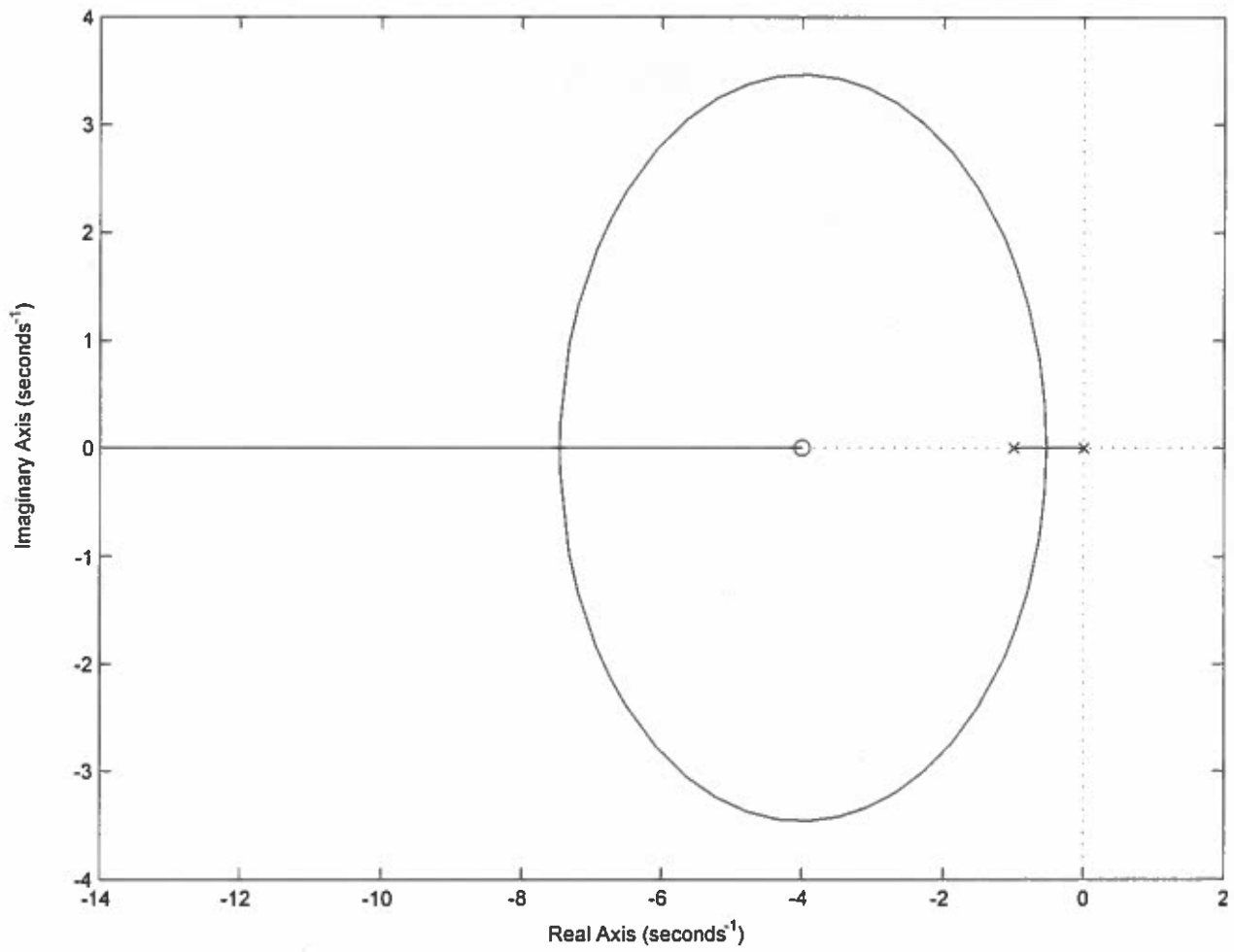




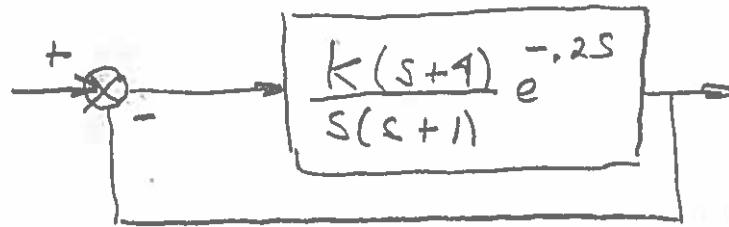




Root Locus



$$e^{-.2s} \approx \frac{-(s-10)}{s+10}$$



Root Locus

