**Assignment-2**
**Course Name: Linear Control Systems**
**Course Code: PCEC-109**
**For Section-B2 only**

**Date of Submission: 25.04.2025**

**Q2.**

a. Open Loop Transfer Function of a Control System is given by

$$G(s)H(s) = \frac{K}{(s^2 + 4s + 13)(s + 6)s}$$

Sketch the Root Locus and determine the break-away point, angle of departure from complex poles and the stability condition.

b. Sketch Polar plot of the given function:

$$G(s) = \frac{20}{s(s + 1)(s + 2)}$$

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