Experiment No. 11

Title: Root Locus of the given transfer function.

Objectives:

- 1. To find transfer function of system using MATLAB.
- 2. To visualize the root locus on *s*-plane

MATLAB:

1. Write a MATLAB program to obtain the root locus for the given transfer function.

$$GH(s) = \frac{k}{s(s+2)(s^2+2s+5)}$$

2. Write a MATLAB program to obtain the root locus for the given transfer function.

$$GH(s) = \frac{k}{(s+3)(s+4)(s^2+2s+17)}$$

Conclusion: (Hint: Write your interpretation from output graphs)