Assignment 11

This is a question to quantify the component loss

3. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s(s+1)(s+2)} \]

4. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s^2(s+1)(s+2)} \]

5. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s^3(s+1)(s+2)} \]

6. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s^4(s+1)(s+2)} \]

7. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s^5(s+1)(s+2)} \]

8. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s^6(s+1)(s+2)} \]

9. If the system has the following transfer function, what is the characteristic equation?
   \[ T(s) = \frac{1}{s^7(s+1)(s+2)} \]

10. If the system has the following transfer function, what is the characteristic equation?
    \[ T(s) = \frac{1}{s^8(s+1)(s+2)} \]