Assignment 16 (ELEC 341 L16_FrequencyResponse)

Problem 1:

Convert the given transfer function into frequency response function, i.e., into $G(j\omega)$ form. Also, compute $M(\omega) = |G(j\omega)|$ and $\phi(\omega) = \angle G(j\omega)$. Find $20\log M(\omega)$ and $\phi(\omega)$ at $\omega = 20$.

$$G(s) = \frac{(s+3)(s+5)}{s(s+2)(s+4)}$$

Solution: