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

$$y(s) = \frac{12}{5} \cdot \frac{2s+5}{s^2+2s+5} = \frac{2s+5}{5(s^2+2s+5)}$$

$$\frac{2}{8(5^2+25+5)} + \frac{5}{5(5^2+25+5)}$$

$$=\frac{2}{(s+1+2i)(s+1-2i)}+\frac{5}{5(s+1+2i)(s+1-2i)}$$

$$A = \frac{2}{(s+\sqrt{2}i)(s+1-2i)} (s+\sqrt{2}i) = \frac{2}{(s+\sqrt{2}i)(s+1-2i)} = \frac{2}{\sqrt{-2}i} = \frac{2}{\sqrt{-2}i} = \frac{2}{\sqrt{-4}i} = \frac{2}{\sqrt{-4}i}$$

$$B = \frac{2}{(S+1+2i)(S+y6i)} \cdot (S+y6i)$$
 $= \frac{2}{(S+1+2i)(S+y6i)} = \frac{2}{(S+2i)(S+2i)} = \frac{2}{(S+2i)(S+2i)(S+2i)} = \frac{2}{(S+2i)(S+2i)(S+2i)} = \frac{2}{(S+2i)(S+2i)(S+2i)} = \frac{2}{(S+2i)(S+2i)(S+2i)} = \frac{2}{(S+2i)(S+2$

$$\frac{2c}{4} [s+1-2i] - \frac{2c}{4} [s+1+2i] - (s+1)^{2} - (2i)^{2}$$

$$G(5) = \frac{25+5}{5^2+25+5}$$

$$\frac{25+5}{5^{2}+25+5} \cdot \frac{1}{5}$$

$$= \frac{1}{5} \left[\frac{25}{5^{2}+25+5} + \frac{5}{5^{2}+25+5} \right]$$

$$= \frac{2}{5^{2}+25+5} + \frac{5}{5(5^{2}+25+5)}$$

ED FTMF

$$(P_1, P_2 = -1 \pm Z_1)$$
 $M_p = 0, 207879$
 $t_p = 1,57 \text{ seg}$
 $V(t_p) = 1,20$
 $t_{(5)} = 4 \text{ sec}$
 $V_d = 2$
 $v_d = 2$
 $v_d = 2$

$$\begin{cases} (5+1+2j)(5+1-2j) \\ s^2 + 5 - 2/5 + 5 + 1 - 4j + 7/5 \\ z + 25 + 5 \end{cases}$$