

$$t_{p} = \frac{\pi}{\omega_{n} \sqrt{1 - \xi^{2}}} \qquad 0.35 : \frac{\pi}{\omega_{n} \sqrt{1 + (45)^{2}}}$$

$$(0.35)(\sqrt{1 - (45)^{2}} = \sqrt{12.4 + (45)}) \qquad (10.5 + 1)(0.05 + 1)^{2}$$

$$(10.5 + 1)(0.05 + 1)^{2} + 200 \text{ Kp}$$

$$(10.5 + 1)(0.025 + 1)^{2} + 200 \text{ Kp}$$

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$$(10.25 + 1)(0.025 + 1)^{2} + 200 \text{ Kp}$$

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$$(10.025 + 1)(0$$

deckases, and were versa.

2) 
$$\frac{V(s)}{U(s)} = \frac{10}{(s+1)(s+2)(s+3)} = \frac{10(U(s))}{x_1 + x_2 + x_3 + x_4 + x_5} = \frac{10}{3}$$
 $\frac{V(s)}{V(s)} \left[ (s^2 + 2s + 2)(s + 3) \right] = \frac{10(U(s))}{x_3 + x_4 + x_5} = \frac{10}{3}$ 
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