KON317 OKS-II. KISA SINAV 2 GÖZÜNTERIZ

$$T_{S} = B[S]$$

$$T_{S} = B[S]$$

$$M_{P} = y_{San}e^{-\frac{1}{3}}\sqrt{1-3^{2}}$$

$$\Rightarrow 3 = \frac{e^{-\frac{1}{3}}\sqrt{1-3^{2}}}{\sqrt{1-3^{2}}\sqrt{1-3^{2}}}$$

$$\Rightarrow 3 = \frac{e^{-\frac{1}{3}}\sqrt{1-3^{2}}}{\sqrt{1-3^{2}}\sqrt{1-3^{2}}\sqrt{1-3^{2}}}$$

$$\Rightarrow 3 = 0,3287$$

$$T_s = \frac{3}{5} - \frac{3}{15} = \frac{3}$$

$$T(s) = \frac{y(s)}{R(s)} = \frac{\omega_n^2}{s^2 + 2s \omega_n s + \omega_n^2} = \frac{1.3015}{s^2 + 0.755 + 1.3015}$$

b) 
$$G_p(s) = \frac{\omega_n^2}{s(s+2j\omega_n)} = \frac{1,3015}{s(s+0,75)}$$

 $\left( \text{yada } Gp(s) = \frac{T(s)}{1 - T(s)} \right)$ 

(Ders Wotlarina Bhiniz.)