desired denom: $s^2 + 2(1)(0.46)\, s + 1^2$

$= \underline{s^2 + .92s + 1}$

closed loop TF:

$$\frac{T_o(s)}{T_d(s)} = \frac{\left(\frac{K_p s + K_I}{s}\right)\frac{25}{2500s+1}}{1 + \frac{(K_p s + K_I)}{s}\frac{25}{2500s+1}}$$

$$= \frac{25(K_p s + K_I)}{2500s^2 + (1 + 25K_p)s + 25K_I}$$

$$= \frac{\frac{1}{100}(K_p s + K_I)}{s^2 + \frac{1+25K_p}{2500}s + \frac{K_I}{100}}$$

want .92 ↑ want 1 ↑

Choose

$K_I = 100$

$K_p = 92$