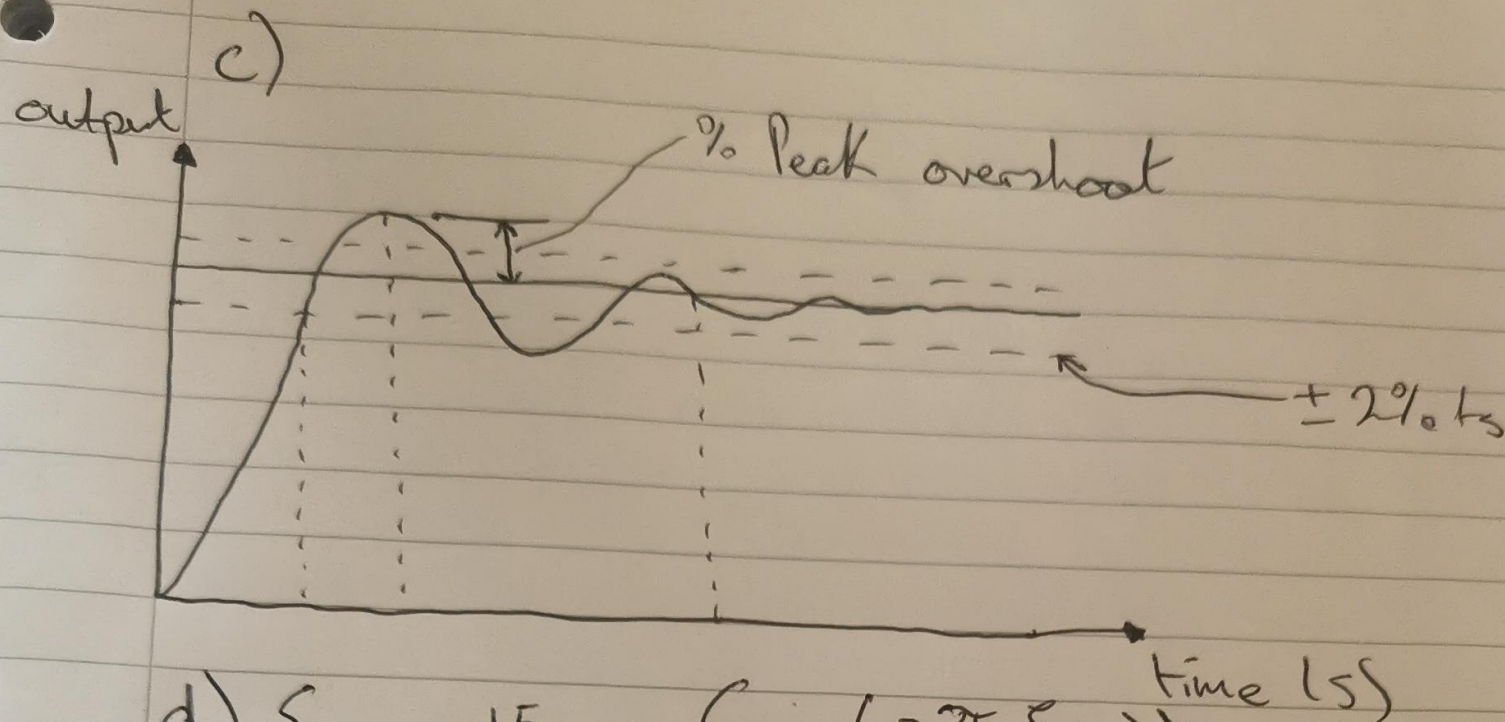


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d) $S_0 = 15 = \left\{ e^{\left(\frac{-\pi \zeta}{\sqrt{1-\zeta^2}} \right)} \right\} \times 100$

Taking Natural logs of both sides

$$\ln 0.15 = \underline{\underline{-\zeta \pi}}$$