

$$H = 40$$

$$H = 100 \frac{h}{h_{\max}}$$

$$h = H \cdot h_{\max} \cdot \frac{1}{100} \quad h_{\max} = 0,36$$

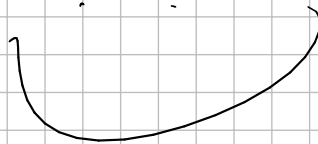
$$h_0 = 0,144$$

$$a = \frac{\alpha}{2 \sqrt{h_0}} \quad \alpha = -0,0733$$

$$a = -9,66 \cdot 10^{-2}$$

$$b = \beta$$

$$k = \frac{1}{2} \times \sqrt{h_0} = 0,01348$$



$$5.3) \quad T = 33s$$

$$a_{0,5} = -\frac{1}{33}$$

$$a = 2a_{0,5} = -0,06$$

$$d) \quad T = 20s$$

$$a = 2 \cdot \left(-\frac{1}{20}\right) = -0,1$$

Större verdi, $a = \frac{\alpha}{2 \sqrt{h_0}}$, støre h_0 eller mindre a

$$A) \quad U = 20 \quad H = 50 \quad t = 48$$

$$u = U \cdot u_{\max} \cdot \frac{1}{100} = 0,1108$$

$$w_0 = H \cdot h_{\max} \cdot \frac{1}{100} = 0,18$$

$$b = \frac{1}{u} \cdot \frac{\Delta h}{\Delta t} = 0,034$$

Stemmer ikke helt

5.4)

b) $K_p = 7,5$

c) Overdampet, når aldri støjonesververdi

d) $A_{\text{virk}} = 2,7\%$

e) $A_{\text{virk}} = 0$

5.5)

a) $\gamma_{\text{min}} = 3,5$

Betone som PI fordi ingen overvektigutløper

$T_i = 20$

$T_d = 1$

b) $K_{pk} = 30$

$T_k = 9,52$

$K_p = \underline{18}$

$K_c = 20 \cdot \frac{K_p}{T_k} = 3,79$

$K_d = \frac{1}{8} K_p T_k = 21$

$T_i = \frac{K_p}{K_c} = \underline{4,75}$

NEI

$T_D = \frac{K_D}{K_P} = \underline{1,17}$

