

$$H = 40$$

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

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

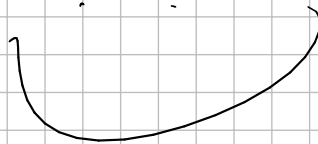
$$h_0 = 0,144$$

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

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

$$b = \beta$$

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



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

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

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

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

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

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

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

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

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

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

Stemmer ikke helt

5.4)

b)  $K_p = 7,5$

c) Overdampet, når altså støjssvækkelse

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

e)  $A_{vib} = 0$

5.5)

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

Betragt en PI-fordelt egen overvågning

$T_i = 20$

$T_d = 1$

b)  $K_{pk} = 30$

$T_k = 9,52$

$K_p = 18$

$K_c = 20 \cdot \frac{K_p}{T_k} = 37,9$

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

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

NEI

$T_d = \frac{K_D}{K_P} = 1,17$

