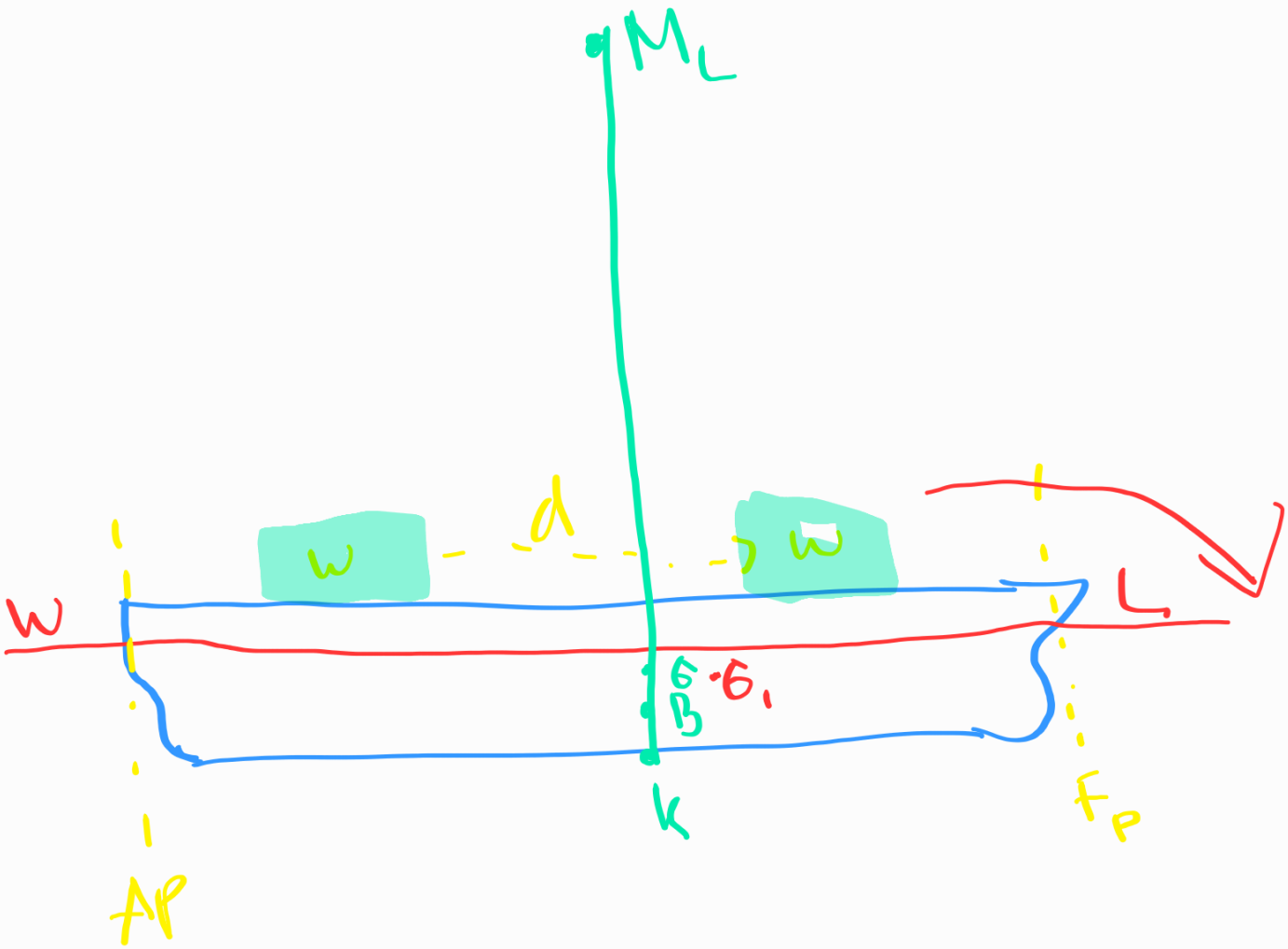
M_L
w
d
w
W
L
σ_B
σ_1
K
f_P
AP

LCF

$$GG_1 = \frac{w \times d}{\Delta}$$

$$GG_1 \simeq GM_L \tan\theta$$

$$\frac{w \times d}{\Delta} = GM_L \tan\theta$$

$$\tan\theta = \frac{w \times d}{\Delta \times GM_L} \quad \text{...(1)}$$

$$\tan\theta = \frac{t}{L} \quad \text{...(2)}$$

Dimana:

t = jarak trim di AP (m)

L = LCF dihitung dari AP (m)

$$\tan\theta = \frac{1}{100\,L} \quad \text{...(3)} \Rightarrow t = \frac{1}{100}\ m$$

$t = 1\ cm$

$$① = ③$$

$$\frac{w \times d}{\Delta \times GML} = \frac{1}{100\ L}$$

Recall bahwa :

trimming momen = $w \times d$

$$\text{trimming moment } (1\ cm) = \frac{\Delta \times GML}{100\ L}$$

$$MTC = \frac{\Delta\ GM_L}{100\ L}$$

$$MTC = \frac{\Delta \times GML}{100 L_{CF}}$$

(LCF from AP)

$$GM_L \simeq BM_L$$

$$MTC = \frac{\Delta \times BM_L}{100 LC_F}$$

$$MTC = \frac{\Delta \times BM_L}{100 L_{pp}}$$