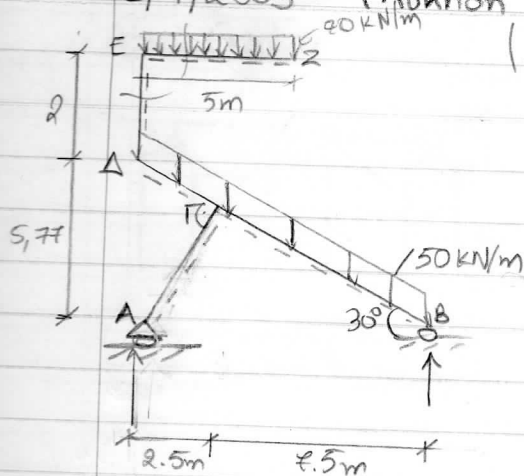


3/4/2009 (Assignment 4m)
 (↓ ώρα το πρβ)



$$\Delta L = 2.89m$$

$$\Delta T = 8.66m \rightarrow \Delta B = 11.55$$

$$\sum M_B = 0 = 10 \times V_A - 20 \times 5 \times 7.5 - 50 \times 11.55 \times 5 \rightarrow V_A = 363.7 \text{ kN}$$

$$\sum M_A = 0 = -V_B \times 10 + 50 \times 11.55 \times 5 + 20 \times 5 \times 2.5 \rightarrow V_B = 313.7 \text{ kN}$$

Ελέγχος

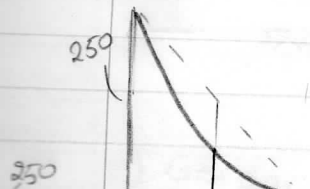
$$V_A + V_B = 20 \times 5 + 50 \times 11.55$$

$$363.7 + 313.7 = 100 + 577.5$$

$$677.4 = 677.5 \quad \checkmark$$

$$M_E = (-) 20 \times 5 \times 2.5 = (-) 250 \text{ kN}$$

↳ ορίζου την ισο



$$\frac{20 \cdot 5^2}{8} = 62.5 \text{ kNm}$$

[N]

$$M_T^a = -50 \times 2.89 \times 1.25 = -180.40 \text{ kN} \cdot m$$

$$* (50 \times \cos 30) \times \frac{2.89^2}{8}$$

$$M_T^k = 363.7 \times 2.5 = 909.2$$

