

Remarks: See §6.3.1, pages 427 till 438

See §6.4 examples 3 till 7, pages 453 till 465

Answers:

a. $M_t = 11,7 \text{ kNm}$

b. $\tau_{\max} = 2,5 \text{ N/mm}^2$

Explanation:

a. $M_t = Fa$

b. $\tau = \frac{Fa}{2A_m t}$ met $A_m = \frac{1}{2} \cdot b \cdot 2a = 97,5 \times 10^3 \text{ mm}^2$