

[Remarks:](#) See §2.3, pages 24 till 26

[Answer 2.4-1:](#)

$$F_{\max} = 51,2 \text{ kN}$$

Truss member BC

[Explanation:](#)

$$-64 \text{ kN} \leq N \leq +112 \text{ kN}$$

$$N^{(AC)} = +\frac{3}{4}F; \frac{3}{4}F \leq 112 \text{ kN} \rightarrow F \leq 149,3 \text{ kN}$$

$$N^{(BC)} = -\frac{5}{4}F; \frac{5}{4}F \leq 64 \text{ kN} \rightarrow F \leq 51,2 \text{ kN}$$

[Answer 2.4-2:](#)

$$F_{\max} = 48,0 \text{ kN}$$

Truss member BC

[Explanation:](#)

$$-64 \text{ kN} \leq N \leq +112 \text{ kN}$$

$$N^{(AC)} = +\frac{5}{3}F; \frac{5}{3}F \leq 112 \text{ kN} \rightarrow F \leq 67,2 \text{ kN}$$

$$N^{(BC)} = -\frac{4}{3}F; \frac{4}{3}F \leq 64 \text{ kN} \rightarrow F \leq 48 \text{ kN}$$