## ANSWERS – VOLUME 1: EQUILIBRIUM

Chapter 7, Gas Pressures and Hydrostatic Pressures

Remarks: See §7.2, example 2, page 250 till 252

Answers:

a. n = 2887, 5 N/m

- b. vertical support reactions:  $n_v = 2500,6 \text{ N/m}$
- c. The horizontal load on the ring belt is an equally distributed load pointing to the outside of the structure and equal to the horizontal component of the membrane force.  $n_{\rm h} = 1443, 7 \,\mathrm{N/m}$
- This creates a tensile force in the ring beam:

 $N_{\text{ringbeam}} = 20,63 \text{ kN}$ 

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