

25 Bod

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- Diagram of a frame structure with dimensions and loads:
- Horizontal dimensions: 3 and 4.
 - Vertical dimensions: 2 and 2.
 - Supports: Pin support at the bottom left, roller support at the bottom right.
 - Loads:
 - Point load $P = 8 \times ZBI$ kN acting vertically downwards on the horizontal member.
 - Uniformly distributed load $q = 2 \times ZBI$ kN/m' acting perpendicular to the inclined member.
 - Moment $M = ZBI$ kNm acting counter-clockwise on the vertical member.
 - Angle $\alpha =$ is indicated between the horizontal and the inclined member.
 - Section 1 is marked on the horizontal member.

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- The diagram shows a truss structure with a total height of 6.00 m (three 2.00 m segments) and a total width of 10.00 m (five 2.00 m segments). The truss is supported by a pin support at the top left and a roller support at the bottom right. A vertical load $P = 8 \times ZBI \text{ kN}$ is applied at the top right joint. A horizontal load $P = 10 \times ZBI \text{ kN}$ is applied at the middle right joint, pointing to the right. The bottom chord is subjected to a trapezoidal distributed load with a left intensity of $q_1 = 11 + ZBI \text{ kN/m'}$ and a right intensity of $q_2 = 2 + ZBI \text{ kN/m'}$. The truss consists of a central vertical member, two diagonal members, and horizontal members at each level. Members are marked with double slashes to indicate they are to be removed for the analysis.

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Broj indeksa: _____

4) sve dužine su date u metrima [m] 5) Trajanje ispita je 3 sata.