

(3/10)

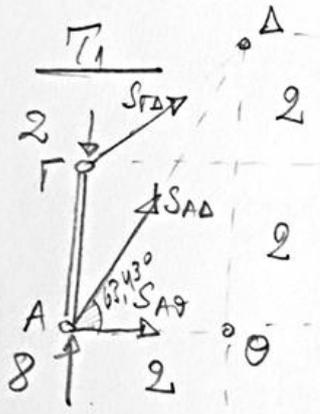
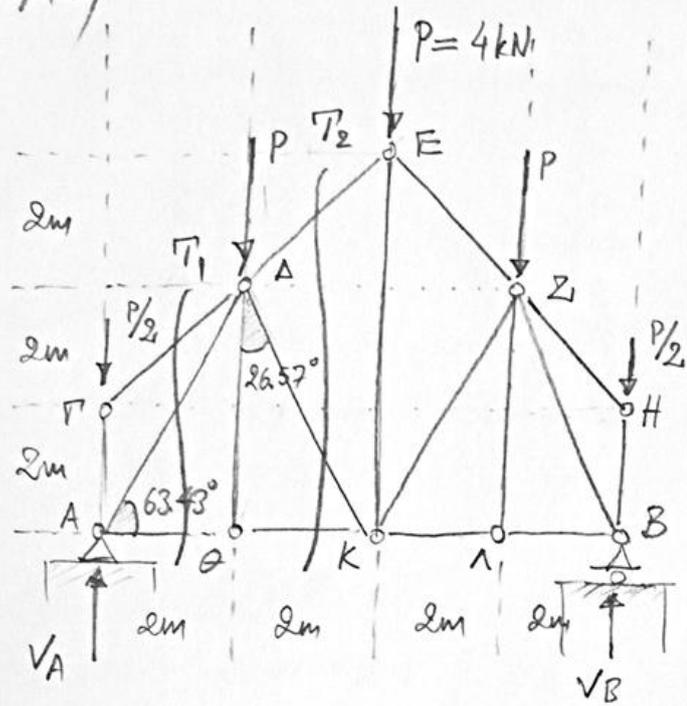
$\sin 63.43^\circ = 0.894$; $\sin 26.57^\circ = 0.447$
 $\cos 63.43^\circ = 0.447$; $\cos 26.57^\circ = 0.894$

Ανίσρ. συμπίεση

$\sum F_y = 0 \Rightarrow V_A = V_B = \frac{4P}{2} = 2P = 8 \text{ kN}$
 $\sum M = 0$

Δωράτες επί των

- Συμπίεση
 - $S_{AD} \equiv S_{AZ} = 0 \text{ kN}$



$\sum M_A = 0 \Rightarrow 4 \times S_{AG} - 2(8-2) = 0 \Rightarrow S_{AG} = 3 \text{ kN}$ Εφ

$\sum M_A = 0 \Rightarrow S_{FA} = 0 \text{ kN}$

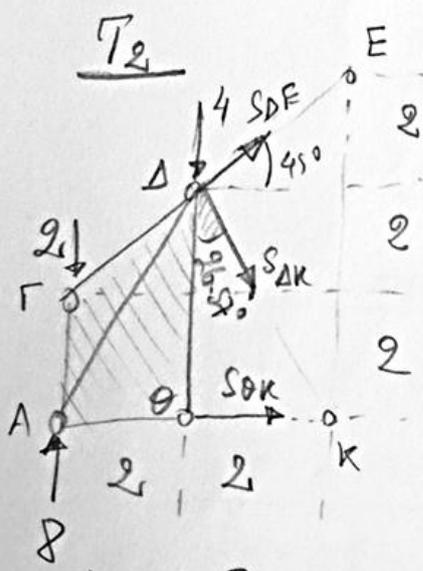
$\sum F_y = 0 \Rightarrow S_{AA} \sin 63.43^\circ + 8 - 2 = 0 \Rightarrow S_{AA} = -6.71 \text{ kN}$ Θ1

Κόμβος Γ $\Rightarrow S_{AF} = -2 \text{ kN}$ Θ1

Κόμβος Δ $\Rightarrow S_{DK} \equiv S_{AD} = 3 \text{ kN}$ Εφ

$\sum M_K = 0 \Rightarrow 4 \times 2 - 4 \times 8 + 2 \times 4 - 2 \times \frac{\sqrt{2}}{2} S_{DE} - 4 \times \frac{\sqrt{2}}{2} S_{DE} = 0$
 $\Rightarrow S_{DE} = \frac{-16}{3\sqrt{2}} = -3.77 \text{ kN}$ Θ1

$\sum F_y = 0 \Rightarrow 8 - 2 - 4 + \frac{\sqrt{2}}{2} S_{DE} - S_{DK} \cos 26.57^\circ = 0$
 $\Rightarrow S_{DK} = \left[2 + \frac{\sqrt{2}}{2} (-3.77) \right] / 0.894 = -0.74 \text{ kN}$ Θ1



$\sum F_y = 0 \Rightarrow 2 \times 3.77 \times \frac{\sqrt{2}}{2} - 4 - S_{EK} = 0 \Rightarrow S_{EK} = 1.33 \text{ kN}$ Εφ

Σ δεξιά του κόμβου Κ

$\sum F_y = 1.33 - 2 \times 0.74 \times 0.894 = 0$

