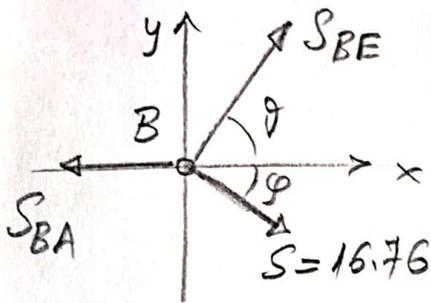


Εσωτερικά Στοιχεία κόμβων ⑦ - μέγιστος κόμβος:

Κόμβος B



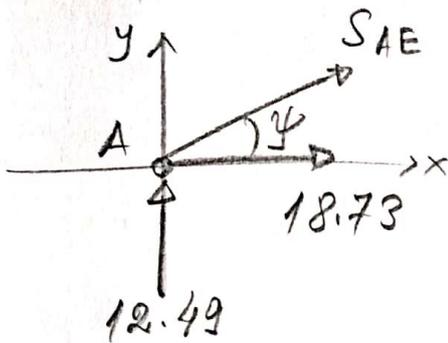
$$\sum F_y = 0 \Rightarrow 0.894 S_{BE} = 0.447 \cdot 16.76 \Rightarrow$$

$$\Rightarrow \boxed{S_{BE} = 8.38 \text{ kN}} \quad \underline{\text{Έφελκ.}}$$

$$\sum F_x = 0 \Rightarrow 0.894 \cdot 16.76 + 0.447 \cdot 8.38 = S_{BA} \Rightarrow$$

$$\Rightarrow \boxed{S_{BA} = 18.73 \text{ kN}} \quad \underline{\text{Έφελκ.}}$$

Κόμβος A



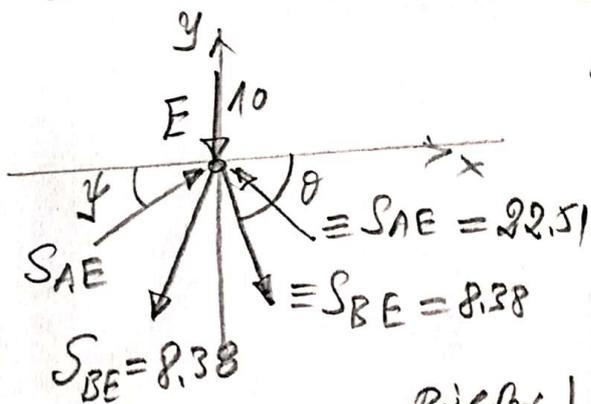
$$\sum F_x = 0 \Rightarrow 0.832 \cdot S_{AE} = -18.73 \Rightarrow$$

$$\Rightarrow \boxed{S_{AE} = -22.51 \text{ kN}} \quad \underline{\text{Πίπτ.}}$$

$$\sum F_y = 0 \quad (\text{Έλεγχος}) \Rightarrow$$

$$0.554 \cdot 22.51 = 12.47 \approx 12.49$$

Κόμβος E



Έλεγχος

$$\sum F_y = 0 \Rightarrow 2 \cdot 0.554 \cdot 22.51 -$$

$$- 2 \cdot 0.894 \cdot 8.38 = 9.96 \approx 10 \quad \checkmark$$

Μέγιστος	Εσωτ. Στοιχ S [kN]	Είδος
AB/DC	18.73	Έφελκ.
BE/CE	8.38	Έφελκ.
EA/ED	22.51	Πίπτ.