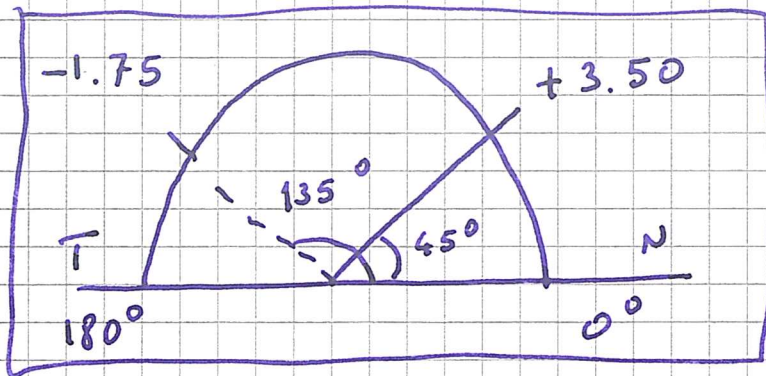


$$\begin{cases} +3.50 \times 135^\circ \\ -1.75 \times 45^\circ \end{cases}$$

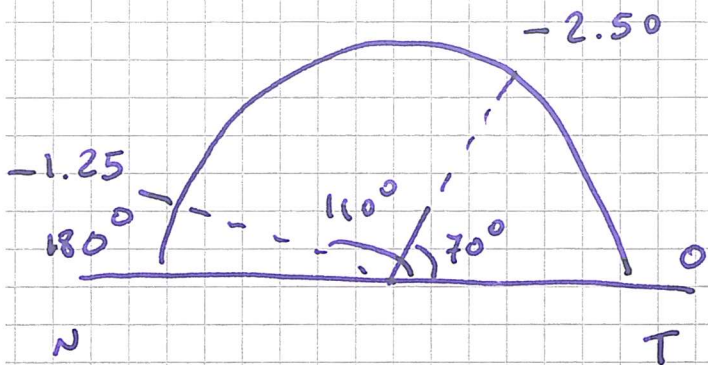


$$\begin{aligned} +3.50 + x &= -1.75 \\ x &= -5.25 \text{ D} \end{aligned}$$

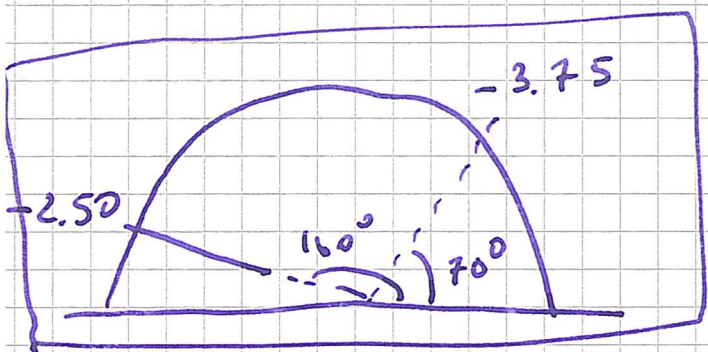
$$\begin{aligned} +3.50 / -5.25 \times 45^\circ \\ -1.75 / +5.25 \times 135^\circ \end{aligned}$$

$$-2.50 / +1.25 \times 110^\circ$$

ESERCIZIO 2



$$\left\{ \begin{array}{l} -2.50 \times 160^\circ \\ -1.25 \times 70^\circ \end{array} \right.$$



$$\frac{-2.50 / -1.25 \times 160^\circ}{+1.25}$$

ES. 3

$$l = -4.00 \text{ m}$$

$$\Phi(50^\circ) = +2.25 \text{ D}$$

$$\Phi(140^\circ) = +1.25 \text{ D}$$

$$\frac{1}{e'} = \frac{1}{e} + \frac{1}{f}$$

a 50°

$$\frac{1}{e'_{50^\circ}} = -0.25 + 2.25 = +2.00 \text{ D}$$

$$e'_{50^\circ} = \boxed{0.50 \text{ m}}$$

a 140°

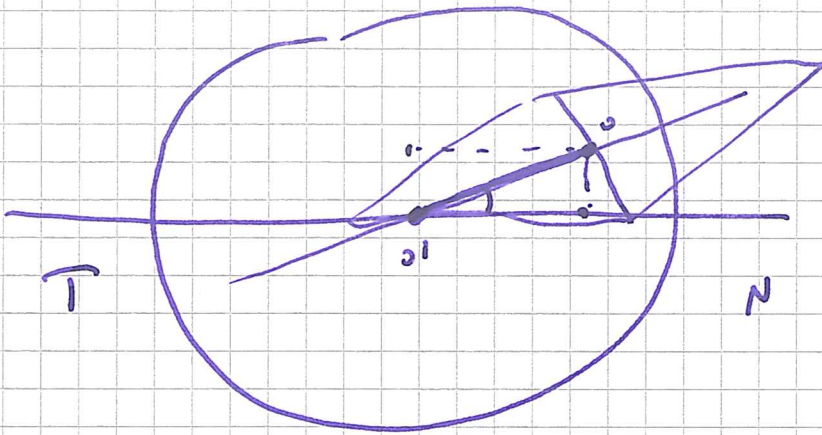
$$\frac{1}{e'_{140^\circ}} = -0.25 + 1.25 = +1.00 \Rightarrow e'_{140^\circ} = \boxed{1.00 \text{ m}}$$

$$\frac{2}{l_{nc}} = \frac{1}{e'_{50^\circ}} + \frac{1}{e'_{140^\circ}} \Rightarrow \frac{2}{l_{nc}} = 3$$

$$l_{nc} = \frac{2}{3} = \boxed{0.67 \text{ m}}$$

$$\Phi = +2.50 \quad \text{OD}$$

ES (4)



$$\tan \alpha = \frac{3}{7} \quad \alpha = 23^\circ$$

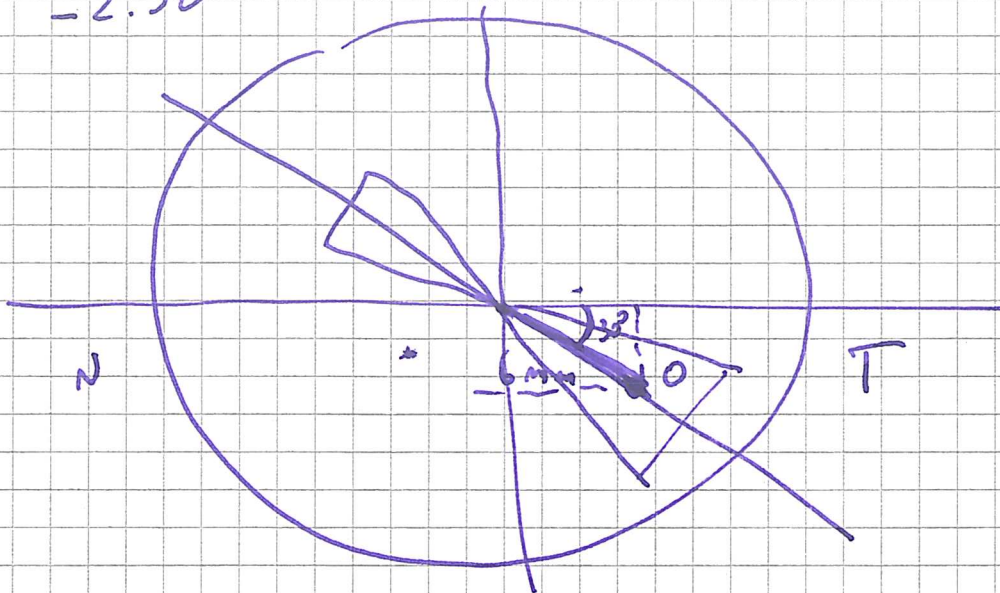
$$d = \sqrt{7^2 + 3^2} = 8 \text{ mm}$$

$$Z = h \cdot \Phi = 0.8 \cdot 2.5 = 2.0 \Delta$$

$$Z = 2.0 \Delta \text{ a } 23^\circ \text{ BN}$$

$$-2.50 \times 60$$

$$-2.50$$



ES.5

$$Z = -2.50 \cdot 0.6 = 1.5 \Delta$$

$$Z = 1.5 \Delta \text{ a } 150^\circ \text{ BT}$$

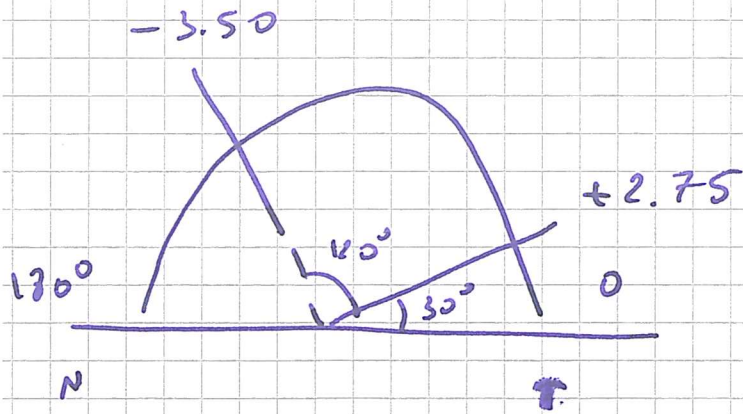
$$Z_x = 1.5 \cdot \cos 30^\circ = 1.3$$

$$Z_x = 1.3 \Delta \text{ a } 180^\circ \text{ BT}$$

$$Z_y = 1.3 \cdot \sin 30^\circ = 0.6 \text{ (F)} \Delta$$

$$Z_y = 0.6 \text{ (F)} \Delta \text{ a } 90^\circ \text{ BB}$$

ESERCIZIO 6



$$\left\{ \begin{array}{l} +2.75 \times 120^\circ \\ -3.50 \times 30^\circ \end{array} \right.$$

$$+2.75 + x = -3.50$$

$$x =$$

$$\begin{array}{l} +2.75 / -6.25 \times 30^\circ \\ -3.50 / +6.25 \times 120^\circ \end{array}$$