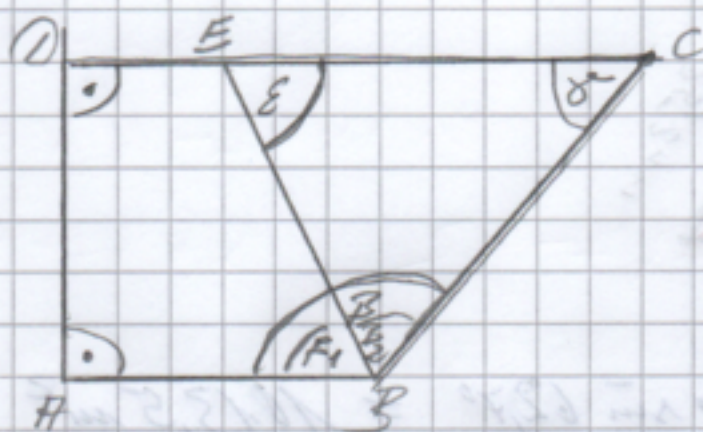


He 10 3. Woche Wdhlauff. Trigonometrie

1.1.1



Innenwinkelsumme $\square ABCD: 360^\circ$
 $\Rightarrow \beta = 360^\circ - 2 \times 90^\circ - 64^\circ$
 $\beta = 116^\circ$

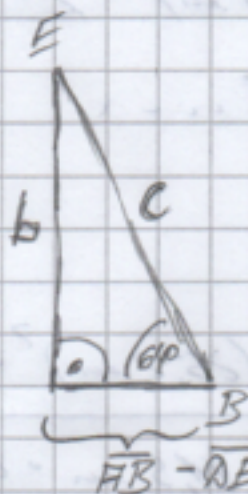
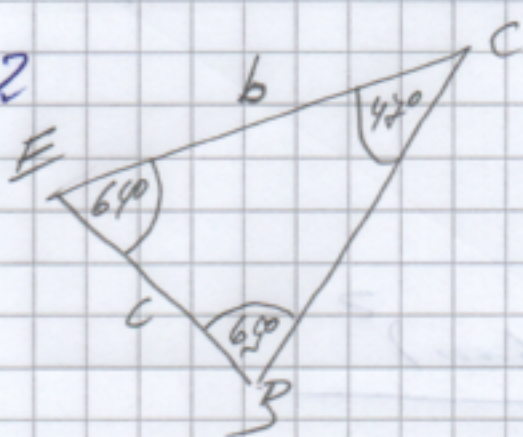
Innenwinkelsumme $\triangle BCE: 180^\circ$

$\beta_2 = \beta - \beta_1 = 116^\circ - 47^\circ = 69^\circ$

$\epsilon = 180^\circ - 8^\circ - \beta_2 = 64^\circ$

besser: Mediane. au geschn.
 Parallelen

1.1.2



$\tan 64^\circ = \frac{b}{6.1 \text{ cm}} \quad | \cdot 6.1 \text{ cm}$

$b = 12.5 \text{ cm}$

$c^2 = b^2 + (6.1 \text{ cm})^2$
 $= (12.5 \text{ cm})^2 + (6.1 \text{ cm})^2$
 $= 195.46 \text{ cm}^2 \quad | \sqrt{}$

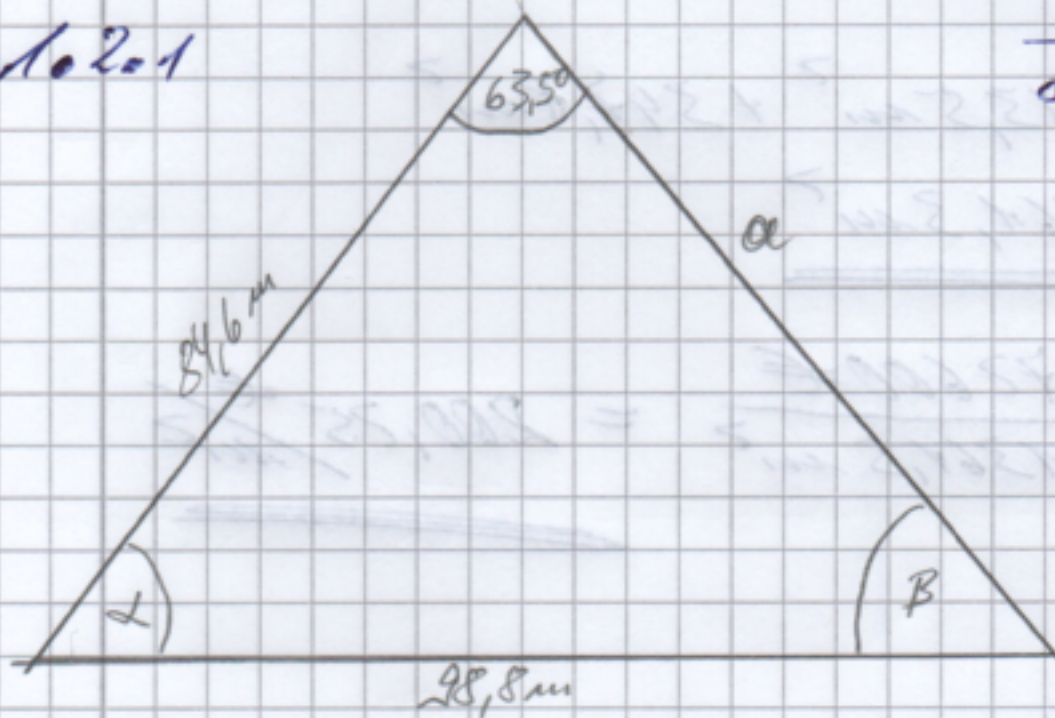
$c = 13.9 \text{ cm} = \overline{BE}$

$\frac{c}{\sin 47^\circ} = \frac{b}{\sin 69^\circ} \quad | \cdot \sin 47^\circ$

$b = \frac{13.9 \text{ cm} \cdot \sin 69^\circ}{\sin 47^\circ}$

$= 17.7 \text{ cm} = \overline{EC}$

1.2.1



$\frac{\sin \beta}{84.6 \text{ m}} = \frac{\sin 63.5^\circ}{98.8 \text{ m}} \quad | \cdot 84.6 \text{ m}$

$\sin \beta = 0.7663 \text{ cm}$

$\beta = 50^\circ$

$\alpha = 66.5^\circ$

$A = \frac{1}{2} \cdot 98.8 \text{ m} \cdot 84.6 \text{ m} \cdot \sin 66.5^\circ$

$= 3832.6 \text{ m}^2$

$\approx 3833 \text{ m}^2$

$\frac{a}{\sin 66.5^\circ} = \frac{84.6 \text{ m}}{\sin 50^\circ} \quad | \cdot \sin 66.5^\circ$

$a = 101.3 \text{ m}$

$\Rightarrow u = 284.7 \text{ m}$