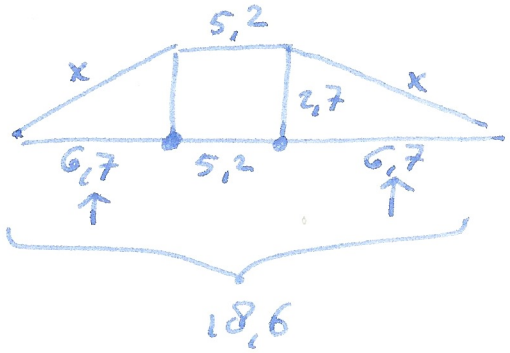
Korrekturvorlage 4EM W4

703



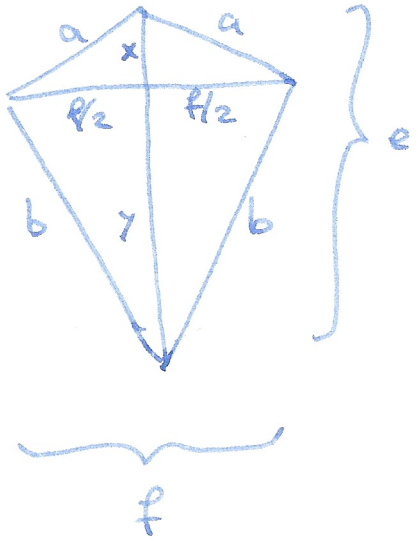
$6{,}7 + 6{,}7 + 5{,}2 = 18{,}6$ ✓

$x^2 = (2{,}7)^2 + (6{,}7)^2$

... TR ...

$x = \ldots$

711



$A = \frac{e \cdot f}{2} = 624\ mm^2$

$e \cdot f = 1248$

$f = 1248 : 52 = \ldots$ TR ... ☺

damit weißt du $f/2$

$\frac{f}{2} = \frac{A}{e} = \frac{624}{52} = 12$

$\Rightarrow x^2 = a^2 - \left(\frac{f}{2}\right)^2 = 625 - 144$

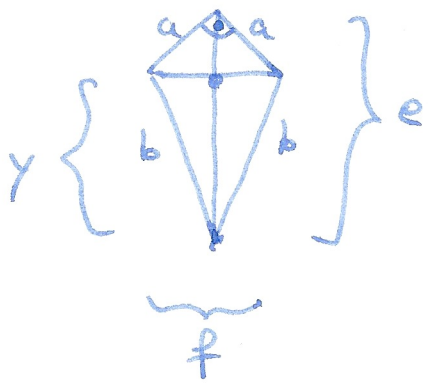
$= 481 \longrightarrow x = \sqrt{481} \approx \ldots$

$\Rightarrow \begin{cases} y^2 + \left(\frac{f}{2}\right)^2 = b^2 \\ y = e - x \end{cases} \Rightarrow$ kannst du jetzt ausrechnen

$\Rightarrow$ $b^2 = y^2 + 12^2 = \ldots$ TR ... $\Rightarrow$ (b)

$U = 2(a+b) = \ldots$ TR ... ✓

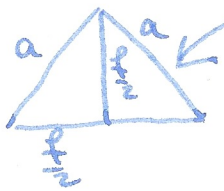
712 Hinweise



$a = 1\ cm$

$e = 3\ cm$

und wegen des rechten Winkels



$\Rightarrow f = a\sqrt{2} = \ldots$ TR ...

wie oben $y = e - x = e - \frac{f}{2}$

$b^2 = \left(\frac{f}{2}\right)^2 + y^2 \Rightarrow b = \ldots$

$U = 8b$ Siehe Figur im Buch