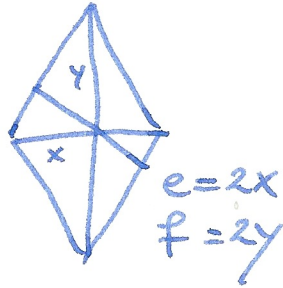


692 a)

(I)



Fläche $h \cdot a = 600 \text{ m}^2$

auch $2 \cdot x \cdot y$ ist die Fläche.

und $x^2 + y^2 = a^2 = 625$

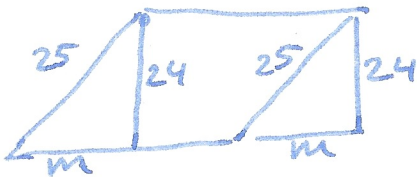
$$\Rightarrow \begin{cases} x^2 + y^2 + 2xy = 600 + 625 \\ \text{also } (x+y)^2 = 1225 \end{cases}$$

$$\begin{cases} \text{und} \\ x^2 + y^2 - 2xy = 25 \\ (x-y)^2 = 5^2 \end{cases}$$

Daher $x+y = 35$
 $x-y = \pm 5$

\Rightarrow x & y sind
15 & 20
(oder umgekehrt)

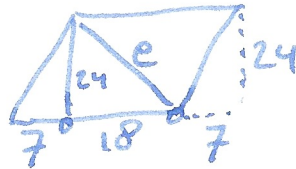
(II)



$$m^2 = 25^2 - 24^2 = 49$$

$$\Rightarrow m = 7$$

\Rightarrow



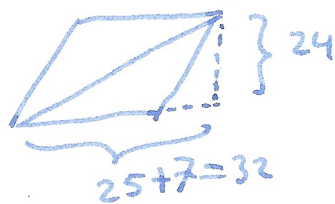
$$e^2 = 24^2 + 18^2$$

$$= 576 + 324$$

$$= 900$$

$$e = 30 \text{ (stimmt, denn } x = \frac{e}{2} \text{)}$$

&



$$f^2 = 24^2 + 32^2$$

$$= 576 + 1024$$

$$= 1600$$

$$f = 40$$

Beide Methoden sind korrekt,
 gültig und elegant
 \Rightarrow Geschmacksache.