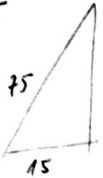


S. 107 NR 5



$$a^2 + b^2 = c^2$$

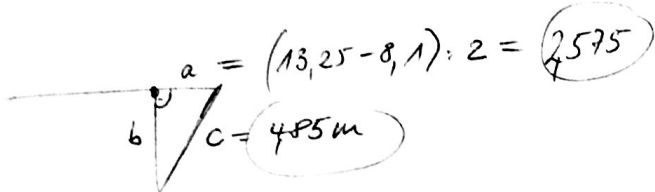
$$15^2 + b^2 = 21.5^2$$

$$b^2 = 5625 - 5400$$

$$b^2 = 3400 \quad | \sqrt{\quad}$$

$$b = 73,48 \text{ m}$$

S. 107 NR 7



Tiefe  $b^2 = c^2 - a^2$

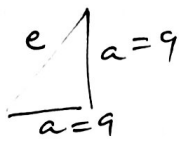
$$b^2 = 4,85^2 - 2,575^2$$

$$b^2 = 23,25 - 6,36 = 16,89$$

$$b = \sqrt{16,89} = 4,1097 \text{ m}$$

S. 107 NR 8

a) Flächendiagonale e:



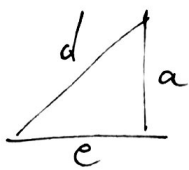
$$a^2 + a^2 = e^2$$

$$9^2 + 9^2 = e^2$$

$$182 = e^2 \quad | \sqrt{\quad}$$

$$13,49 \text{ cm} = e$$

b) Raumdiagonale



$$a^2 + e^2 = d^2$$

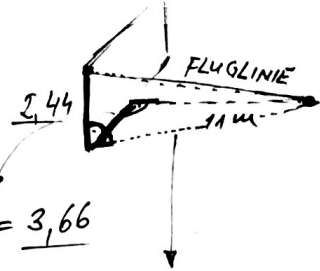
$$9^2 + 13,49^2 = d^2$$

$$81 + 182 = d^2 \quad | \sqrt{\quad}$$

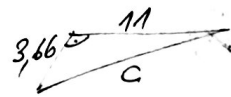
$$263 = d^2$$

$$d = 16,22 \text{ cm}$$

S. 106 NR. 33 a)



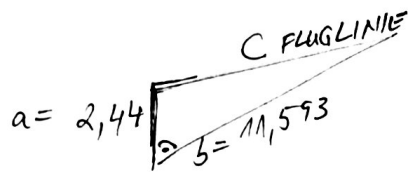
$$\frac{7,32}{2} = 3,66$$



$$11^2 + 3,66^2 = c^2$$

$$c^2 = 134,3956 \quad | \sqrt{\quad}$$

$$c = 11,593 \text{ m}$$

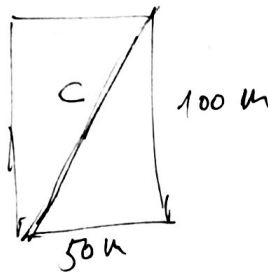


$$2,44^2 + 11,593^2 = c^2$$

$$c^2 = 140,349 \quad | \sqrt{\quad}$$

$$c = 11,846 \text{ m}$$

NR. 32a



Robin:  $50 \text{ m} + 100 \text{ m} = 150 \text{ m}$

Steffen:  $c = \sqrt{50^2 + 100^2}$

$$c = \sqrt{10250} = 101,24 \text{ m}$$

Wie viel Prozent spart Steffen?

1% von 150 m = 1,50 m

Er spart ja 48,75 m. Dort passen 32,5%!

linear (48,75 : 1,5)