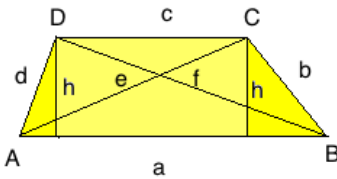


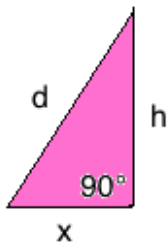
Pythagoras Trapez Formeln

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[Lösungen](#)

1. Teildreieck: Hilfsvariable x



Grundformel: $d^2 = h^2 + x^2$

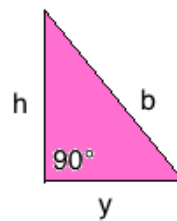
Anwendung:

$$x = \sqrt{d^2 - h^2}$$

$$h = \sqrt{d^2 - x^2}$$

$$d = \sqrt{h^2 + x^2}$$

2. Teildreieck: Hilfsvariable y



Grundformel: $b^2 = h^2 + y^2$

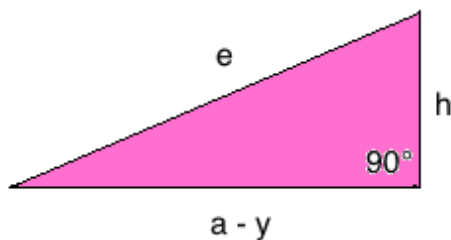
Anwendung:

$$y = \sqrt{b^2 - h^2}$$

$$h = \sqrt{b^2 - y^2}$$

$$b = \sqrt{h^2 + y^2}$$

3. Teildreieck: Diagonale e



Grundformel: $e^2 = (a - y)^2 + h^2$

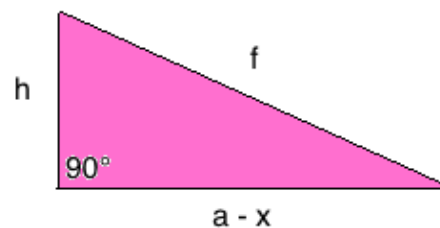
Anwendung:

$$e = \sqrt{(a - y)^2 + h^2}$$

$$h = \sqrt{e^2 - (a - y)^2}$$

$$a - y = \sqrt{e^2 - h^2}$$

4. Teildreieck: Diagonale f



Grundformel: $f^2 = (a - x)^2 + h^2$

Anwendung:

$$f = \sqrt{(a - x)^2 + h^2}$$

$$h = \sqrt{f^2 - (a - x)^2}$$

$$a - x = \sqrt{f^2 - h^2}$$