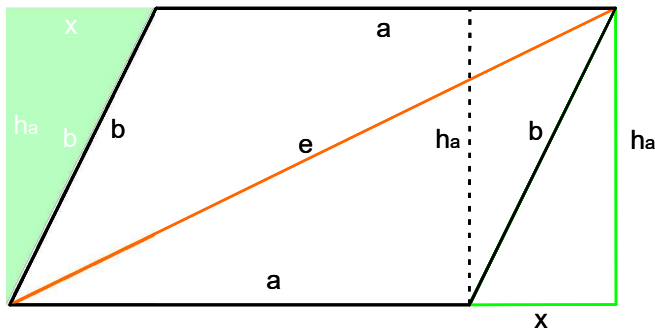


Parallelogramm



Berechnung von u und A

$$u = 2 * (a + b) = 2 * (5 + 3) = 16\text{cm}$$

$$A = a * h_a = 5 * 2,6 = 13\text{cm}^2$$

Berechnung von x, Dreieck: b, ha, x

$$x^2 = b^2 - h_a^2 \rightarrow x = \sqrt{b^2 - h_a^2} = \sqrt{3^2 - 2,6^2} = 1,5\text{cm}$$

Berechnung von e, Dreieck: e, ha, a + x

$$e^2 = (a+x)^2 + h_a^2 \rightarrow e = \sqrt{(a+x)^2 + h_a^2} = \sqrt{6,5^2 + 2,6^2} = 7\text{cm}$$

1. Angabe

$$a = 5\text{cm}$$

$$b = 3\text{cm}$$

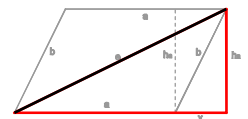
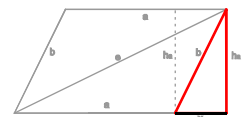
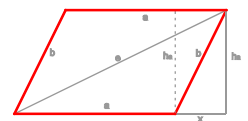
$$h_a = 2,6\text{cm}$$

$$x = 1,5\text{cm}$$

$$e = 7\text{cm}$$

$$u = 16\text{cm}$$

$$A = 13\text{cm}^2$$



Berechnung von b

$$u = 2 * (a + b) = 2a + 2b \rightarrow b = (u - 2a) / 2 = (20,8 - 12,8) / 2 = 4\text{cm}$$

Berechnung von ha

$$A = a * h_a \rightarrow h_a = A / a = 22,4 / 6,4 = 3,5\text{cm}$$

Berechnung von x, Dreieck b, x, ha

$$x^2 = b^2 - h_a^2 \rightarrow x = \sqrt{b^2 - h_a^2} = \sqrt{4^2 - 3,5^2} = 1,94\text{cm}$$

Berechnung von e, Dreieck: e, ha, (a + x)

$$e^2 = (a+x)^2 + h_a^2 \rightarrow e = \sqrt{(a+x)^2 + h_a^2} = \sqrt{8,34^2 + 3,5^2} = 9\text{cm}$$

2. Angabe

$$a = 6,4\text{cm}$$

$$b = 4\text{cm}$$

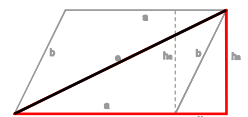
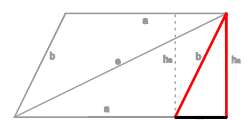
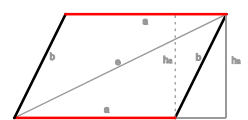
$$h_a = 3,5\text{cm}$$

$$x = 1,94\text{cm}$$

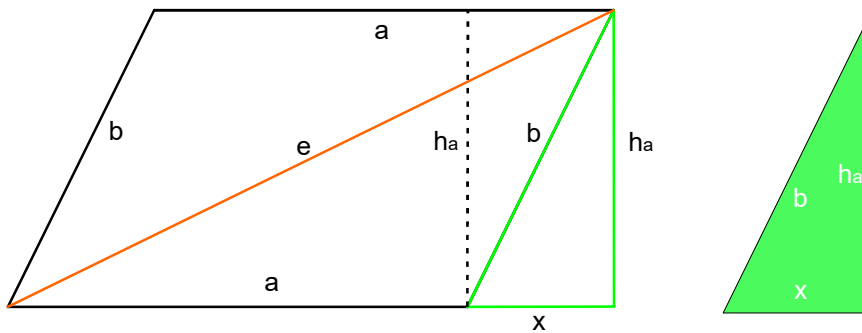
$$e = 9\text{cm}$$

$$u = 20,8\text{cm}$$

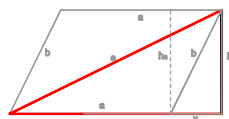
$$A = 22,4\text{cm}^2$$



Parallelogramm

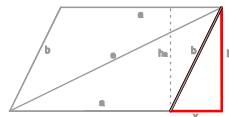


Berechnung von h_a , Dreieck $h_a, (a+x), e$



Berechnung von A

Berechnung von b , Dreieck: b, h_a, x



Berechnung von u ,

3. Angabe

Ergebnisse

$a = 5\text{cm}$

$a = 5\text{cm}$

$b =$

$b = 3\text{cm}$

$h_a =$

$h_a = 2,6\text{cm}$

$x = 1,5\text{cm}$

$x = 1,5\text{cm}$

$e = 7\text{cm}$

$e = 7\text{cm}$

$u =$

$u = 16\text{cm}$

$A =$

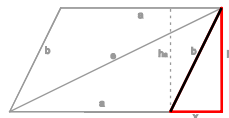
$A = 13\text{cm}^2$

Berechnung von h_a

4. Angabe

Ergebnisse

Berechnung von b , Dreieck b, h_a, x



$a = 6,4\text{cm}$

$a = 6,4\text{cm}$

$b =$

$b = 4\text{cm}$

$h_a =$

$h_a = 3,5\text{cm}$

Berechnung von u

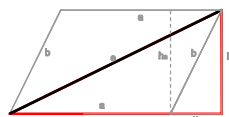
$x = 1,94\text{cm}$

$x = 1,94\text{cm}$

$e =$

$e = 9\text{cm}$

Berechnung von e , Dreieck: $e, h_a, (a + x)$



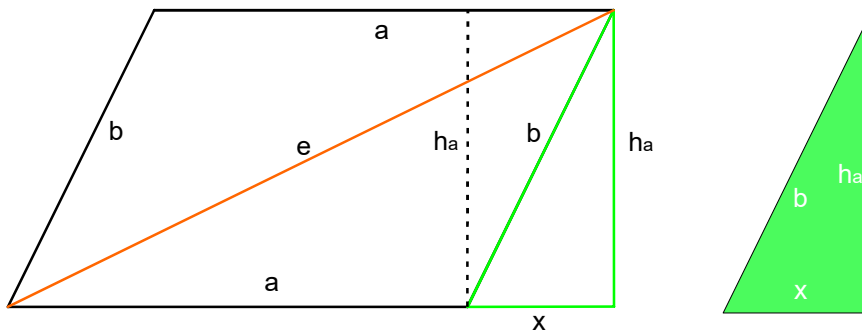
$u =$

$u = 20,8\text{cm}$

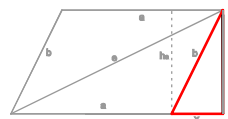
$A = 22,4\text{cm}^2$

$A = 22,4\text{cm}^2$

Parallelogramm



Berechnung von h_a , Dreieck: b, h_a, x



5. Angabe

Ergebnisse

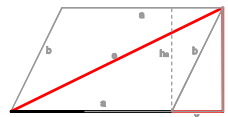
$a =$

$a = 5\text{cm}$

$b = 3\text{cm}$

$b = 3\text{cm}$

Berechnung von a , Dreieck: $e, h_a, (a + x)$



$h_a =$

$h_a = 2,6\text{cm}$

$x = 1,5\text{cm}$

$x = 1,5\text{cm}$

Berechnung von A

$e = 7\text{cm}$

$e = 7\text{cm}$

Berechnung von u

$u =$

$u = 16\text{cm}$

$A =$

$A = 13\text{cm}^2$

Berechnung von a

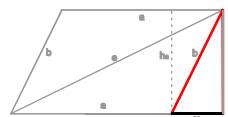
6. Angabe

Ergebnisse

$a =$

$a = 6,4\text{cm}$

Berechnung von h_a , Dreieck b, x, h_a



$b = 4\text{cm}$

$b = 4\text{cm}$

$h_a =$

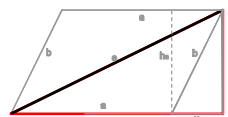
$h_a = 3,5\text{cm}$

Berechnung von A

$x = 1,94\text{cm}$

$x = 1,94\text{cm}$

Berechnung von e , Dreieck: $e, h_a, a + x$



$e =$

$e = 9\text{cm}$

$u = 20,8\text{cm}$

$u = 20,8\text{cm}$

$A =$

$A = 22,4\text{cm}^2$