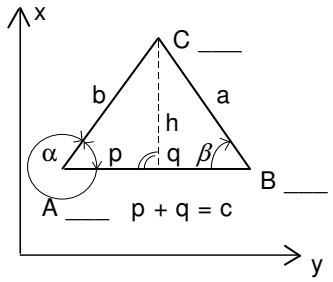
ABSTECKELEMENTE

Anlage zu Aufgabe _____

gegeben: A (y_a;x_a)
B (y_b;x_b)
C (y_c;x_c)

gesucht: Absteckelemente für C
1. h, p, c
2. α, b und β, a



1. Orthogonale Absteckelemente ("Höhe und Höhenfußpunkt")

1.1

$a = \sqrt{\Delta y^2_{b,c} + \Delta x^2_{b,c}} =$ | $b = \sqrt{\Delta y^2_{a,c} + \Delta x^2_{a,c}} =$ | $c = \sqrt{\Delta y^2_{a,b} + \Delta x^2_{a,b}} =$

$p = \frac{b^2 + c^2 - a^2}{2c} =$ (*Speichern!*) | $q = c - p =$ (*Speichern!*)

$h = \sqrt{b^2 - p^2} =$ | *Rechenkontrolle:* $h = \sqrt{a^2 - q^2} =$

1.2

$a = \sqrt{\Delta y^2_{b,c} + \Delta x^2_{b,c}} =$ | $b = \sqrt{\Delta y^2_{a,c} + \Delta x^2_{a,c}} =$ | $c = \sqrt{\Delta y^2_{a,b} + \Delta x^2_{a,b}} =$

$p = \frac{b^2 + c^2 - a^2}{2c} =$ (*Speichern!*) | $q = c - p =$ (*Speichern!*)

$h = \sqrt{b^2 - p^2} =$ | *Rechenkontrolle:* $h = \sqrt{a^2 - q^2} =$

1.3

$a = \sqrt{\Delta y^2_{b,c} + \Delta x^2_{b,c}} =$ | $b = \sqrt{\Delta y^2_{a,c} + \Delta x^2_{a,c}} =$ | $c = \sqrt{\Delta y^2_{a,b} + \Delta x^2_{a,b}} =$

$p = \frac{b^2 + c^2 - a^2}{2c} =$ (*Speichern!*) | $q = c - p =$ (*Speichern!*)

$h = \sqrt{b^2 - p^2} =$ | *Rechenkontrolle:* $h = \sqrt{a^2 - q^2} =$

2. Polare Absteckelemente

Pkt. Nr.	y	x	R→P b = $\sqrt{\Delta y^2 + \Delta x^2}$	R→P t = $\arctan\frac{\Delta y}{\Delta x}$	
	$\Delta y = y_b - y_a$	$\Delta x = x_b - x_a$			
	$\Delta y = y_c - y_a$	$\Delta x = x_c - x_a$			$\alpha =$
A__					400 gon - $t_{A,B}$ + $t_{A,C}$
B__				$t_{A,B}$=	$\alpha =$
					$\beta = t_{B,C} - t_{B,A}$
C__					$\beta =$
				$t_{A,C}$=	

Pkt. Nr.	y	x	a = $\sqrt{\Delta y^2 + \Delta x^2}$	t = $\arctan\frac{\Delta y}{\Delta x}$	
	$\Delta y = y_a - y_b$	$\Delta x = x_a - x_b$			
	$\Delta y = y_c - y_b$	$\Delta x = x_c - x_b$			*Rechenkontrolle:* $\frac{a}{\sin(400-\alpha)} = \frac{b}{\sin\beta}$
B__					
A__				$t_{B,A}$=	=
C__					=
				$t_{B,C}$=	