C_S — Start-Coordinate

C_D — Destination-Coordinate

k — Kurs $(0...359,9°)$

e — Entfernung [NM]

d_B — Differenz – Breite [λ]

d_L — Differenz – Länge [

I $k = 0...90°$

$d_B = e \cdot \cos k$

$d_L = e \cdot \sin k$

II $k = 90...180$
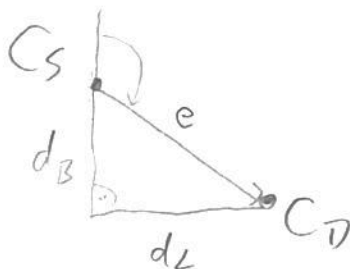
$k_2 = k - 90$

$d_B = e \cdot \sin k_2$

$d_L = e \cdot \cos k_2$

k	k_2	d_B	d_L
90	0	0	e
180	90	e	0

III $k = 180...270$
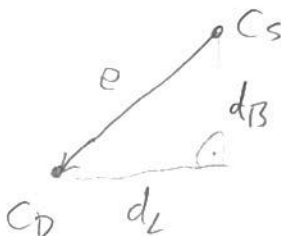
$k_3 = k - 180$

$d_B = e \cdot \cos k_3$

$d_L = e \cdot \sin k_3$

k	k_3	d_B	d_L
180	0	e	0
270	90	0	e

IV C_D $k = 270...360$
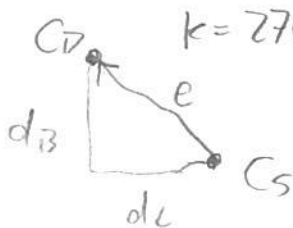
$k_4 = k - 270$

$d_B = e \cdot \sin k_4$

$d_L = e \cdot \cos k_4$

k	k_4	d_B	d
270	0	0	e
360	90	e	ℓ

$$D_B = \frac{d_B}{60NM}$$ Differenz – Breite $[°]$

$$D_L = \frac{d_L}{a \cdot 60NM}$$ Differenz – Länge $[°]$

$$a = \cos\left(\frac{B_{CS} + B_{CD}}{2}\right)$$

$$\text{I} \quad B_{CD} = B_{CS} + D_B$$
$$\text{II} \quad B_{CD} = B_{CS} - D_B$$
$$\text{III} \quad B_{CD} = B_{CS} - D_B$$
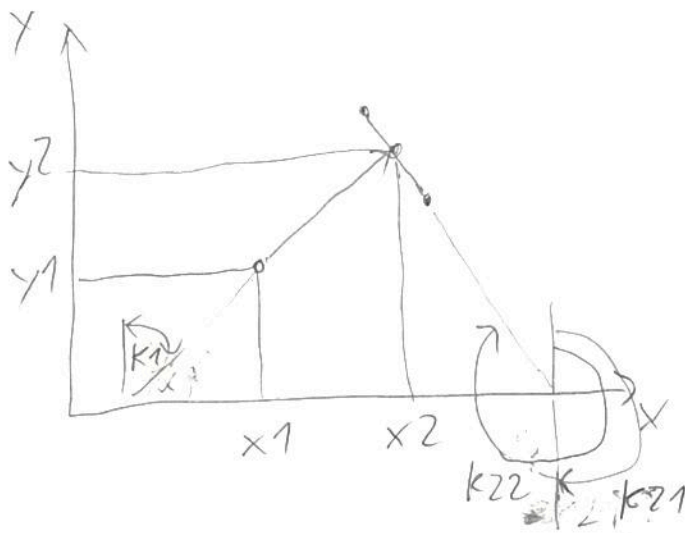$$\text{IV} \quad B_{CD} = B_{CS} + D_B$$

B- Breite $[°]$

$$\text{I} \quad L_{CD} = L_{CS} + D_L$$
$$\text{II} \quad L_{CD} = L_{CS} + D_L$$
$$\text{III} \quad L_{CD} = L_{CS} - D_L$$
$$\text{IV} \quad L_{CD} = L_{CS} - D_L$$

L - Länge $[°]$

$$K1 = \text{AviationMath.calculateLeg().dir}$$

$$K21 \stackrel{!}{=} K1 + 90°$$
$$K22 = K1 + 270°$$
$$> 360° \; \text{~~weg rechnen~~}$$
$$\rightarrow \; - 360°$$

~~get~~ ~~calculate~~ get ~~start~~ src
~~Get~~ Coordinate (Coordinate , Kurs , Entfernung)

scr Latitude -90...90
scr Longitude
-179,999..., 180

true Track
[Grad]
0...359,999

distance Value
[NM]