

calculate Leg

SP - Startpunkt  
FP - Finishpunkt

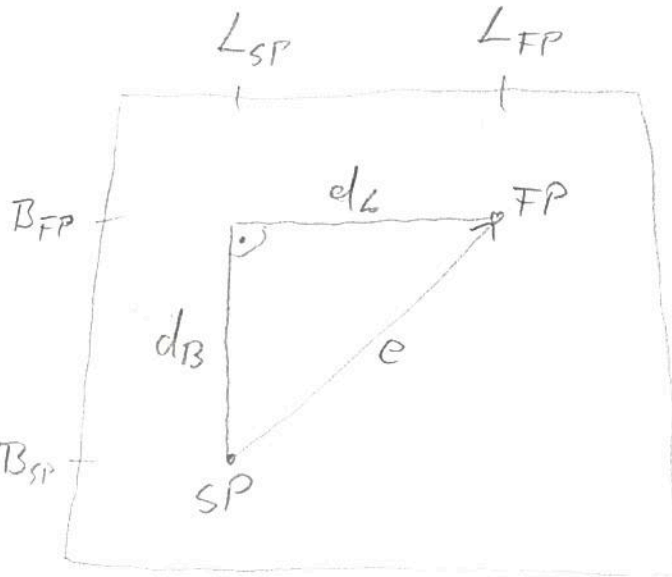
lat B - Breite  
lon L - Länge

D - Differenz ( $^{\circ}$ )

$d$  - Differenz (NM)

$e$  - Entfernung (NM)

$k$  - Kurs ( $^{\circ}$ )



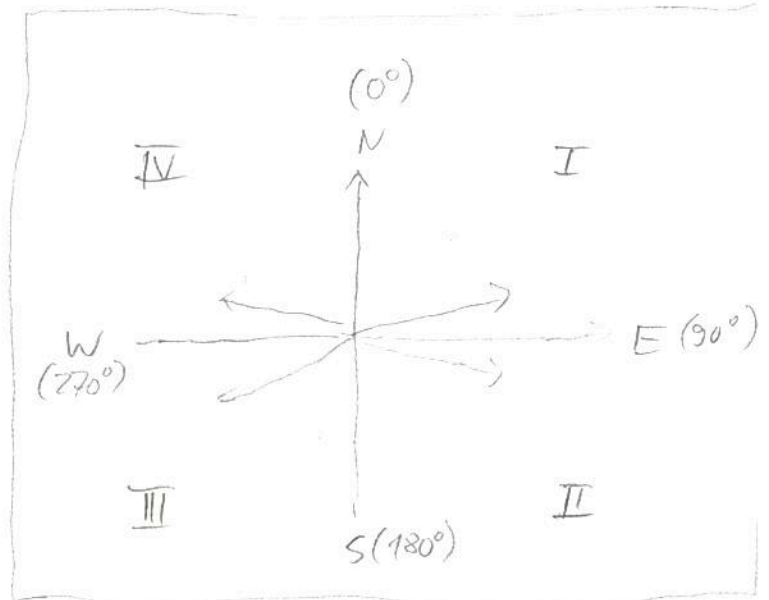
Breite:  $90^{\circ}S \rightarrow 90^{\circ}N \Rightarrow -90^{\circ} \dots 90^{\circ}N$

Länge:  $180^{\circ}W \rightarrow 180^{\circ}E \Rightarrow -180^{\circ} \dots 180^{\circ}E$

Diff  $D_B = B_{FP} - B_{SP}$

lon Diff  $D_L = L_{FP} - L_{SP}$

$$e = \sqrt{d_B^2 + d_L^2}$$



$d_B = 0$   $d_L > 0$   $k = 90^{\circ}$   
 $d_L < 0$   $k = 270^{\circ}$

$d_L = 0$   $d_B > 0$   $k = 0^{\circ}$   
 $d_B < 0$   $k = 180^{\circ}$

I  $d_B > 0$   $d_L > 0$   $k = \arctan \frac{d_L}{d_B}$   
II  $d_B < 0$   $d_L > 0$   $k = 180^{\circ} + \arctan \frac{d_L}{d_B}$   
III  $d_B < 0$   $d_L < 0$   $k = 180^{\circ} + \arctan \frac{d_L}{d_B}$   
IV  $d_B > 0$   $d_L < 0$   $k = 360^{\circ} + \arctan \frac{d_L}{d_B}$

$d_L$	$d_B$	$k$
10	1	$84^{\circ}$
10	-1	$55^{\circ}$
-10	1	$264^{\circ}$
10	1	$275^{\circ}$

lat Dis  $d_B = 60 \text{ NM} \cdot D_B$

$$a = \cos \left( \frac{B_{FP} + B_{SP}}{2} \right)$$

lon Dis  $d_L = a \cdot 60 \text{ NM} \cdot D_L$