

$$H_s = 20^\circ 19',2$$

$$\varepsilon = 4',2$$

$$\text{Dip} = \underline{\quad - 2',5 \quad} +$$

$$H_a = 20^\circ 20',9$$

$$\text{sun correct. LL/UL} = \underline{\quad + 13',6 \quad} +$$

$$H_o = 20^\circ 34',5$$

La Rochelle

Date 26/01/2022

UT 10h 40m 19s

$$\begin{aligned} \text{index error} &= + 3' \\ + \text{non adjust. error} &= \underline{+ 1',2} \\ \varepsilon &= + 4',2 \end{aligned}$$

$$L = 46^\circ 12' \text{ N}$$

$$G = 004^\circ 31' \text{ W}$$

Height of the eye = 2 m

☒ lower limb ☐ upper limb

$$\begin{aligned} \text{GHA} &= 326^\circ 52',8 \\ + pp &= \underline{10^\circ 04',8} \quad (\text{increment}) \end{aligned}$$

$$\text{GHA} = 336^\circ 57',6$$

$$G = \underline{004^\circ 31' \text{ W}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 332^\circ 26',6 \quad G = \text{West} \rightarrow \text{substract}$$

$$LHA < 180^\circ ; \text{sun in the West} ; P = LHA$$

$$LHA > 180^\circ ; \text{sun in the East} ; P = 360 - LHA$$

$$P = 27^\circ 33',4 \quad \boxed{\times} \text{NE} / \boxed{\square} \text{NW} / \boxed{\times} \text{SE} / \boxed{\square} \text{SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',6 \downarrow)$$

$$\begin{aligned} D &= 18^\circ 40',1 \text{ S} \\ \text{correc. } d &= \underline{0',4} \end{aligned}$$

$$D = 18^\circ 39',7 \text{ S}$$

$$L = 46^\circ 12' \quad \Rightarrow$$

$$D = \underline{18^\circ 39',7}$$

$$(L/D) = 64^\circ 51',7 \quad \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,84020$$

$$(T1) \quad \text{LOG COS } D = 9,97654$$

$$\begin{aligned} (T2) \quad \text{LOG VERSINE } P &= \underline{9,05479} + \\ \text{LOG } 2e \text{ T} &= 28,87153 \end{aligned}$$

$$(T3) \quad \text{COS } (L/D) = 0,42481$$

$$\begin{aligned} (T4) \quad \text{NAT } 2e \text{ T} &= \underline{0,07439} - \\ \text{SIN } H_c &= 0,35042 \end{aligned}$$

$$(T5) \quad H_c = 20^\circ 30',7$$

$$H_o = 20^\circ 34',5$$

$$H_c = \underline{20^\circ 30',7} -$$

$$\text{intercept} = 3',8 \quad (+ \text{ ou } -)$$

L et D **same** name
 $\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name
 $\rightarrow (L + D)$

Azimuth (*table*)

part I :

$$l_c = 2,00$$

$$d_c = \underline{0,73}$$

$$z_c = 2,73 \quad \boxed{\square} \text{acute} \quad \boxed{\times} \text{obtuse}$$

part II :

$$Z = 152^\circ,1$$

$$Z_v = 152^\circ,1$$

$$H_s = 50^{\circ}43',8$$

$$\varepsilon = -2',2$$

$$+ \text{ Dip} = \underline{-3',6} +$$

$$H_a = 50^{\circ}38,0'$$

$$+ \text{ sun correct. LL/UL} = \underline{+15',4} +$$

$$H_o = 50^{\circ}53',4$$

Madagascar

Date 05/02/2022

UT 11h 55m 29s

$$\text{index error} = -4'$$

$$+ \text{ non adjust.error} = \underline{+1',8} +$$

$$\varepsilon = -2',2$$

$$L = 30^{\circ}24' \text{ S}$$

$$G = 044^{\circ}13' \text{ E}$$

Height of the eye = 4 m

☒ lower limb ☐ upper limb

$$\text{GHA} = 341^{\circ}30',6$$

$$+ pp = \underline{13^{\circ}52',3} \quad \text{increment)$$

$$\text{GHA} = 355^{\circ}22',9 \quad G = \text{West} \rightarrow \text{substract}$$

$$G = \underline{044^{\circ}13' \text{ E}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 039^{\circ}35',9$$

$$LHA < 180^{\circ}; \text{ sun in the West ; } P = LHA$$

$$LHA > 180^{\circ}; \text{ sun in the East ; } P = 360 - LHA$$

$$P = 039^{\circ}35',9 \quad \square \text{ NE} \quad \boxed{\text{NW}} \quad \square \text{ SE} \quad \square \text{ SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',8 \downarrow)$$

$$D = 15^{\circ}51',4 \text{ S}$$

$$\text{corr. } d = \underline{0',7}$$

$$D = 15^{\circ}50',7 \text{ S}$$

$$L = 30^{\circ}24' \quad \Rightarrow$$

$$D = \underline{15^{\circ}50',7} \quad +/ -$$

$$(L/D) = 14^{\circ}33',3 \quad \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,93577$$

$$(T1) \quad \text{LOG COS } D = 9,98318$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,36072} +$$

$$\text{LOG } 2e \text{ T} = 29,27967$$

$$(T3) \quad \text{COS } (L/D) = 0,96791$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,19040} -$$

$$\text{SIN } H_c = 0,77751$$

$$(T5) \quad H_c = 51^{\circ}02'$$

$$H_o = 50^{\circ}53',4$$

$$H_c = \underline{51^{\circ}02',0} -$$

$$\text{intercept} = -8',6 \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 0,71$$

$$d_c = \underline{0,45}$$

$$z_c = 0,26 \quad \square \text{ acute} \quad \boxed{\text{obtuse}}$$

part II :

$$Z = 102,5^{\circ}$$

$$Z_v = 282,5^{\circ}$$

$$H_s = 36^\circ 54',1$$

$$\varepsilon = 2',7$$

$$\text{Dip} = \underline{\quad - 2',5 \quad} +$$

$$H_a = 36^\circ 54',3$$

$$+ \text{sun correct. LL/UL} = \underline{\quad - 14',7 \quad} +$$

$$H_o = 37^\circ 09',0$$

Perth

Date 16/08/2022

UT 07h 14m 35s

$$\text{index error} = +1'$$

$$+ \text{non adjust. error} = \underline{+ 1',7} +$$

$$\varepsilon = 2',7$$

$$L = 27^\circ 25' \text{ S}$$

$$G = 106^\circ 39' \text{ E}$$

Height of the eye = 2 m

☒ lower limb ☐ upper limb

$$\text{GHA} = 283^\circ 54',8$$

$$+ pp = \underline{3^\circ 38',8} \quad \text{increment)$$

$$\text{GHA} = 287^\circ 33',6 \quad G = \text{West} \rightarrow \text{subtract}$$

$$G = \underline{106^\circ 39' \text{ E}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 034^\circ 12',6$$

$$LHA < 180^\circ ; \text{sun in the West; } P = LHA$$

$$LHA > 180^\circ ; \text{sun in the East; } P = 360 - LHA$$

$$P = 034^\circ 12',6 \quad \square \text{ NE} \quad \square \text{ NW} \quad \square \text{ SE} \quad \square \text{ SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',8 \downarrow)$$

$$D = 13^\circ 42',9 \text{ N}$$

$$\text{corr. } d = \underline{0',2}$$

$$D = 13^\circ 42',7 \text{ N}$$

$$L = 27^\circ 25' \Rightarrow$$

$$D = 13^\circ 42',7 \text{ +/-}$$

$$(L/D) = 41^\circ 07',7 \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,94826$$

$$(T1) \quad \text{LOG COS } D = 9,98744$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,23808} +$$

$$\text{LOG } 2e \text{ T} = 29,17378$$

$$(T3) \quad \text{COS } (L/D) = 0,75324$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,14920} -$$

$$\text{SIN } H_c = 0,60404$$

$$(T5) \quad H_c = 37^\circ 09',5$$

$$H_o = 37^\circ 09',0$$

$$H_c = \underline{37^\circ 09',5} -$$

$$\text{intercept} = -0',5 \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

Azimet (table)

part I :

$$l_c = 0,76$$

$$d_c = \underline{0,43}$$

$$z_c = 1,19 \quad \square \text{ acute} \quad \square \text{ obtuse}$$

part II :

$$Z = 136,5^\circ$$

$$Z_v = 316,5^\circ$$

$$\begin{aligned} H_s &= 27^\circ 31',6 \\ \varepsilon &= -1',5 \\ \text{Dip} &= \underline{\quad - 3',6 \quad} + \end{aligned}$$

$$\begin{aligned} H_a &= 27^\circ 26',5 \\ + \text{sun correct. LL/UL} &= \underline{\quad - 14',5 \quad} + \end{aligned}$$

$$H_o = 27^\circ 41',0$$

San Francisco

Date 06 / 01 / 2022

UT 18h 34m 54s

$$\begin{aligned} \text{index error} &= - 3' \\ + \text{non adjust.error} &= \underline{+ 1',5} + \\ \varepsilon &= - 1',5 \end{aligned}$$

$$L = 34^\circ 40' \text{ N}$$

$$G = 123^\circ 15' \text{ W}$$

Height of the eye = 4 m

☒ lower limb ☐ upper limb

$$\begin{aligned} \text{GHA} &= 088^\circ 31' \\ + pp &= \underline{8^\circ 43',5} \quad \text{increment) } \end{aligned}$$

$$\text{GHA} = 097^\circ 14',5 \quad G = \text{West} \rightarrow \text{substract}$$

$$G = \underline{123^\circ 15' \text{ W}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 333^\circ 59',5$$

$$LHA < 180^\circ ; \text{ sun in the West; } P = LHA$$

$$LHA > 180^\circ ; \text{ sun in the East; } P = 360 - LHA$$

$$P = 026^\circ 00',5 \quad \text{☒ NE} \quad \text{☐ NW} \quad \text{☐ SE} \quad \text{☐ SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',3 \downarrow)$$

$$D = 22^\circ 25',9 \text{ S}$$

$$\text{corr. } d = \underline{\quad 0',2 \downarrow \quad}$$

$$D = 22^\circ 25',7 \text{ S}$$

$$L = 34^\circ 40' \quad \Rightarrow$$

$$D = 22^\circ 25',7 \text{ +/-}$$

$$(L/D) = 57^\circ 05',7 \quad \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,91512$$

$$(T1) \quad \text{LOG COS } D = 9,96588$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,00548} +$$

$$\text{LOG } 2e \text{ T} = 28,88648$$

$$(T3) \quad \text{COS } (L/D) = 0,54325$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,07700} -$$

$$\text{SIN } H_c = 0,46625$$

$$(T5) \quad H_c = 27^\circ 47',5$$

$$H_o = 27^\circ 41',0$$

$$H_c = \underline{27^\circ 47',5} -$$

$$\text{intercept} = -6',5 \quad (+ \text{ ou } -)$$

L et D **same** name

→ (L - D) or (D - L)

L et D **not same** name

→ (L + D)

Azimuth (table)

part I :

$$l_c = 1,42$$

$$d_c = \underline{0,94}$$

$$z_c = 2,36 \quad \text{☐ acute} \quad \text{☒ obtuse}$$

part II :

$$Z = 152,6^\circ$$

$$Z_v = 152,6^\circ$$

$$H_s = 52^\circ 18'$$

$$\varepsilon = 2',8$$

$$\text{Dip} = \underline{\quad - 2',5 \quad} +$$

$$H_a = 52^\circ 18',3$$

$$+ \text{sun correct. LL/UL} = \underline{\quad 15',3 \quad} +$$

$$H_o = 52^\circ 33',6$$

Galapagos

Date 06 / 06 / 2022

UT 15h 58m 54s

$$\text{index error} = + 1'$$

$$+ \text{non adjust. error} = \underline{+ 1',8} +$$

$$\varepsilon = 2',8$$

$L = 03^\circ 58' \text{ S}$

$G = 086^\circ 54' \text{ W}$

Height of the eye = 2 m

☒ lower limb ☐ upper limb

$$\text{GHA} = 045^\circ 18',9$$

$$+ pp = \underline{14^\circ 43',5} \quad \text{increment)$$

$$\text{GHA} = 060^\circ 02',4 \quad G = \text{West} \rightarrow \text{subtract}$$

$$G = \underline{086^\circ 54' \text{ W}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 333^\circ 08',4$$

$$LHA < 180^\circ ; \text{sun in the West; } P = LHA$$

$$LHA > 180^\circ ; \text{sun in the East; } P = 360 - LHA$$

$$P = 026^\circ 51',6 \quad \square \text{ NE} \quad \square \text{ NW} \quad \boxed{\text{SE}} \quad \square \text{ SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',3 \uparrow)$$

$$D = 22^\circ 41',5 \text{ N}$$

$$\text{corr. } d = \underline{0',3 \uparrow}$$

$$D = 22^\circ 41',8 \text{ N}$$

$$L = 03^\circ 58' \Rightarrow$$

$$D = 22^\circ 41',8 \text{ +/-}$$

$$(L/D) = 26^\circ 39',8 \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,99896$$

$$(T1) \quad \text{LOG COS } D = 9,96499$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,03297} +$$

$$\text{LOG } 2e \text{ T} = 28,99692$$

$$(T3) \quad \text{COS } (L/D) = 0,89366$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,09929}$$

$$\text{SIN } H_c = 0,79437$$

$$(T5) \quad H_c = 52^\circ 35',7$$

$$H_o = 52^\circ 33',6$$

$$H_c = \underline{52^\circ 35',7} -$$

$$\text{intercept} = -2',1 \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 0,14$$

$$d_c = \underline{0,93}$$

$$z_c = 1,07 \quad \square \text{ acute} \quad \boxed{\text{obtuse}}$$

part II :

$$Z = 137^\circ$$

$$Z_v = 043^\circ$$

$$H_s = 42^\circ 11',5$$

$$\varepsilon = 3',9$$

$$\text{Dip} = \underline{\quad - 3',6 \quad} +$$

$$H_a = 42^\circ 11',8$$

$$\text{sun correct. LL/UL} = \underline{\quad - 15',1 \quad} +$$

$$H_o = 42^\circ 26',9$$

Tokyo

Date 06 / 03 / 2022

UT 20h 16m 54s

$$\text{index error} = + 2'$$

$$+ \text{ non adjust. error} = \underline{+ 1',9} +$$

$$\varepsilon = 3',9$$

$$L = 33^\circ 21' \text{ N}$$

$$G = 150^\circ 18' \text{ W}$$

Height of the eye = 4 m

☒ lower limb ☐ upper limb

$$\text{GHA} = 117^\circ 12',5$$

$$+ pp = \underline{4^\circ 13',5} \quad \text{increment)$$

$$\text{GHA} = 121^\circ 26',0 \quad G = \text{West} \rightarrow \text{subtract}$$

$$G = \underline{150^\circ 18' \text{ W}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 331^\circ 08',0$$

$$LHA < 180^\circ ; \text{ sun in the West; } P = LHA$$

$$LHA > 180^\circ ; \text{ sun in the East; } P = 360 - LHA$$

$$P = 028^\circ 52',0 \quad \text{NE} \quad \text{NW} \quad \text{SE} \quad \text{SW}$$

$$(d \uparrow \text{ or } \downarrow = 1' \downarrow)$$

$$D = 05^\circ 26',1 \text{ S}$$

$$\text{corr. } d = \underline{\quad 0',3 \quad} \downarrow$$

$$D = 05^\circ 25',8 \text{ S}$$

$$L = 33^\circ 21' \Rightarrow$$

$$D = 05^\circ 25',8 \text{ +/-}$$

$$(L/D) = 38^\circ 46',8 \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,92186$$

$$(T1) \quad \text{LOG COS } D = 9,99805$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,09431} +$$

$$\text{LOG } 2e \text{ T} = 29,01422$$

$$(T3) \quad \text{COS } (L/D) = 0,77955$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,10330}$$

$$\text{SIN } H_c = 0,67625$$

$$(T5) \quad H_c = 42^\circ 33'$$

$$H_o = 42^\circ 26',9$$

$$H_c = \underline{42^\circ 33' -}$$

$$\text{intercept} = -6',1 \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 1,19$$

$$d_c = \underline{0,20}$$

$$z_c = 1,39 \quad \text{acute} \quad \text{obtuse}$$

part II :

$$Z = 139,5^\circ$$

$$Z_v = 139,5^\circ$$

$$H_s = 56^{\circ}17',5$$

$$\varepsilon = -0',4$$

$$\text{Dip} = -2',5 -$$

$$H_a = 56^{\circ}14',6$$

$$+ \text{sun correct. LL/UL} = 15',3 +$$

$$H_o = 56^{\circ}29',9$$

Pointe -à- Pitre

Date 26 / 09 / 2022

UT 13h 54m 01s

$$\text{index error} = -2'$$

$$+ \text{non adjust. error} = +1',6 +$$

$$\varepsilon = -0',4$$

$$L = 16^{\circ}34' \text{ N}$$

$$G = 059^{\circ}25' \text{ W}$$

Height of the eye = 2 m

☒ lower limb ☐ upper limb

$$\text{GHA} = 017^{\circ}10',2$$

$$+ pp = 13^{\circ}30',3 \quad \text{increment)$$

$$\text{GHA} = 30^{\circ}40',5 \quad G = \text{West} \rightarrow \text{subtract}$$

$$G = 059^{\circ}25',0 \text{ W} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 331^{\circ}15',5$$

$$LHA < 180^{\circ}; \text{ sun in the West; } P = LHA$$

$$LHA > 180^{\circ}; \text{ sun in the East; } P = 360 - LHA$$

$$P = 028^{\circ}44',5 \quad \text{NE} \quad \text{NW} \quad \text{SE} \quad \text{SW}$$

$$(d \uparrow \text{ or } \downarrow = 1' \uparrow)$$

$$D = 01^{\circ}21',8 \text{ S}$$

$$\text{corr. } d = 0',9 \uparrow$$

$$D = 01^{\circ}22',7 \text{ S}$$

$$L = 16^{\circ}34' \Rightarrow$$

$$D = 01^{\circ}22',7 \text{ +/-}$$

$$(L/D) = 17^{\circ}56',7 \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,98159$$

$$(T1) \quad \text{LOG COS } D = 9,99987$$

$$(T2) \quad \text{LOG VERSINE } P = 9,09062 +$$

$$\text{LOG } 2e \text{ T} = 29,07208$$

$$(T3) \quad \text{COS } (L/D) = 0,95135$$

$$(T4) \quad \text{NAT } 2e \text{ T} = 0,1180$$

$$\text{SIN } H_c = 0,83335$$

$$(T5) \quad H_c = 56^{\circ}26',6$$

$$H_o = 56^{\circ}29',9$$

$$H_c = 56^{\circ}26',6 -$$

$$\text{intercept} = 3',3 \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 0,54$$

$$d_c = 0,05$$

$$z_c = 0,59 \quad \text{acute} \quad \text{obtuse}$$

part II :

$$Z = 119,5^{\circ}$$

$$Z_v = 119,5^{\circ}$$

$$H_s = 46^{\circ}07',3$$

$$\varepsilon = 7'$$

$$\text{Dip} = \underline{\quad - 3',6 \quad} +$$

$$H_a = 46^{\circ}10',7$$

$$+ \text{sun correct. LL/UL} = \underline{\quad 15',1 \quad} +$$

$$H_o = 46^{\circ}25',8$$

Rotterdam

Date 11 / 06 / 2022

UT 08h 54m 01s

$$\text{index error} = + 5'$$

$$+ \text{non adjust. error} = \underline{+ 2'} +$$

$$\varepsilon = 7'$$

$$L = 52^{\circ}08' \text{ N}$$

$$G = 003^{\circ}54' \text{ E}$$

Height of the eye = 4 m

☒ lower limb ☐ upper limb

$$\text{GHA} = 300^{\circ}05',2$$

$$+ pp = \underline{13^{\circ}30',3} \quad \text{increment)$$

$$\text{GHA} = 313^{\circ}35',5 \quad G = \text{West} \rightarrow \text{subtract}$$

$$G = \underline{003^{\circ}54',0} \text{ E} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 317^{\circ}29',5$$

$LHA < 180^{\circ}$; sun in the West; $P = LHA$

$LHA > 180^{\circ}$; sun in the East; $P = 360 - LHA$

$$P = 042^{\circ}30',5 \quad \text{☒ NE} \quad \text{☐ NW} \quad \text{☐ SE} \quad \text{☐ SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',2 \uparrow)$$

$$D = 23^{\circ}05',4 \text{ N}$$

$$\text{corr. } d = \underline{0',2 \uparrow}$$

$$D = 23^{\circ}05',6 \text{ N}$$

$$L = 52^{\circ}08'$$

$\Rightarrow$

$$D = 23^{\circ}05',6 \text{ +/-}$$

$$(L/D) = 29^{\circ}02',4$$

$\Rightarrow$

$$(T1) \quad \text{LOG COS } L = 9,78805$$

$$(T1) \quad \text{LOG COS } D = 9,96373$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,41966} +$$

$$\text{LOG } 2e \text{ T} = 29,17144$$

$$(T3) \quad \text{COS } (L/D) = 0,87428$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,14840}$$

$$\text{SIN } H_c = 0,72588$$

$$(T5) \quad H_c = 46^{\circ}32',5$$

$$H_o = 46^{\circ}25',8$$

$$H_c = \underline{46^{\circ}32',5} -$$

$$\text{intercept} = - 6',7 \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 1,40$$

$$d_c = \underline{0,63}$$

$$z_c = 0,77 \quad \text{☐ acute} \quad \text{☒ obtuse}$$

part II :

$$Z = 115,3^{\circ}$$

$$Z_v = 115,3^{\circ}$$