

An analytical solution of the two star sight problem of celestial navigation  
 James A. Van Allen. NAVIGATION Vol. 28, No. 1, 1981

iter	Err	Be	Le	B1	L1	B2	L2	GHA1f	dec1f	GHA2f	dec2f
0	73.9222493	45.999997	-45.017765	-43.999998	-44.983144	45.999997	-45.017765	359.995639	0.719322	44.999	1
1	0.75369094	46	-44.999682	-44	-45.000302	46	-44.999682	359.995636	0.70687	44.999	1
2	0.01350856	46	-45.000006	-44	-44.999995	46	-45.000006	359.995636	0.707093	44.999	1
3	0.00024208	46	-45	-44	-45	46	-45	359.995636	0.707089	44.999	1
4	4.3382E-06	46	-45	-44	-45	46	-45	359.995636	0.707089	44.999	1
5	7.7741E-08	46	-45	-44	-45	46	-45	359.995636	0.707089	44.999	1
I1	-44	-45									
I2	46	-45									

Vector Solution for the Intersection of two Circles of Equal Altitude

Andrés Ruiz González - Navigational Algorithms - <http://www.geocities.com/andresruizgonzalez>

iter	Err	Be	Le	B1	L1	B2	L2	GHA1f	dec1f	GHA2f	dec2f
0	73.9222493	45.999997	-45.017765	-43.999998	-44.983144	45.999997	-45.017765	359.995639	0.719322	44.999	1
1	0.75369094	46	-44.999682	-44	-45.000302	46	-44.999682	359.995636	0.70687	44.999	1
2	0.01350856	46	-45.000006	-44	-44.999995	46	-45.000006	359.995636	0.707093	44.999	1
3	0.00024208	46	-45	-44	-45	46	-45	359.995636	0.707089	44.999	1
4	4.3382E-06	46	-45	-44	-45	46	-45	359.995636	0.707089	44.999	1
5	7.7741E-08	46	-45	-44	-45	46	-45	359.995636	0.707089	44.999	1
I1	-44	-45									
I2	46	-45									

Fix(45.999999991428247, -45.000000008211138) ( 45° 60.0' -45° 0.0') **LopLSSR**

Fix(45.999999991428346, -45.000000008571654) ( 45° 60.0' -45° 0.0') **KaplanSR\_Bm**

