



Find the value of $\sin 63^\circ 16'$

1. **From Table of Natural Sines**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
63	0.8910	0.8918	0.8926	0.8934	0.8942	0.8949	0.8957	0.8963	0.8973	0.8980	1	3	4	5	7

- (i) 0.8935 (ii) 0.8927 (iii) 0.8928 (iv) 0.8934 (v) 0.8931

Find the value of $\cos 28^\circ 11'$

2. **From Table of Natural Cosines**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
28	0.8829	0.8821	0.8813	0.8805	0.8796	0.8788	0.8780	0.8771	0.8763	0.8755	1	3	4	5	7

- (i) 0.8811 (ii) 0.8814 (iii) 0.8817 (iv) 0.8818 (v) 0.881

Find the value of $\tan 16^\circ 47'$

3. **From Table of Natural Tangents**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
16	0.2867	0.2886	0.2905	0.2924	0.2943	0.2962	0.2981	0.3000	0.3019	0.3038	3	6	9	13	16

- (i) 0.302 (ii) 0.3012 (iii) 0.3016 (iv) 0.3013 (v) 0.3019

Find angle θ such that $\sin \theta = 0.8704$

4. **From Table of Natural Sines**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
60	0.8660	0.8669	0.8678	0.8686	0.8695	0.8704	0.8712	0.8721	0.8729	0.8738	1	3	4	6	7

- (i) $60^\circ 40'$ (ii) $60^\circ 30'$ (iii) $60^\circ 20'$ (iv) $60^\circ 25'$ (v) $60^\circ 35'$

Find angle θ such that $\cos \theta = 0.9638$

5. **From Table of Natural Cosines**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
15	0.9659	0.9655	0.9650	0.9646	0.9641	0.9636	0.9632	0.9627	0.9622	0.9617	1	2	2	3	4

- (i) $15^\circ 28'$ (ii) $15^\circ 23'$ (iii) $15^\circ 18'$ (iv) $15^\circ 33'$ (v) $15^\circ 38'$

Find angle θ such that $\tan \theta = 2.1091$

6. **From Table of Natural Tangents**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
64	2.0503	2.0594	2.0686	2.0778	2.0872	2.0965	2.1060	2.1155	2.1251	2.1348	16	31	47	63	78

- (i) $64^\circ 48'$ (ii) $64^\circ 33'$ (iii) $64^\circ 28'$ (iv) $64^\circ 43'$ (v) $64^\circ 38'$

Find the value of $\sin 47^\circ 27'$

7. **From Table of Natural Sines**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
47	0.7314	0.7325	0.7337	0.7349	0.7361	0.7373	0.7385	0.7396	0.7408	0.7420	2	4	6	8	10

- (i) 0.7364 (ii) 0.7363 (iii) 0.7367 (iv) 0.7371 (v) 0.737

Find the value of $\cos 44^\circ 13'$

8. **From Table of Natural Cosines**

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
44	0.7193	0.7181	0.7169	0.7157	0.7145	0.7133	0.7120	0.7108	0.7096	0.7083	2	4	6	8	10

- (i) 0.7171 (ii) 0.7163 (iii) 0.7164 (iv) 0.7167 (v) 0.717

Find the value of $\tan 28^\circ 31'$

9.

From Table of Natural Tangents

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'2'	3'	4'	5'	
28	0.5317	0.5340	0.5362	0.5384	0.5407	0.5430	0.5452	0.5475	0.5498	0.5520	4	8	11	15	19

- (i) 0.543 (ii) 0.5437 (iii) 0.5434 (iv) 0.5431 (v) 0.5438

Find angle θ such that $\sin \theta = 0.4591$

10.

From Table of Natural Sines

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'2'	3'	4'	5'	
27	0.4540	0.4555	0.4571	0.4586	0.4602	0.4617	0.4633	0.4648	0.4664	0.4679	3	5	8	11	13

- (i) $27^\circ 20'$ (ii) $27^\circ 30'$ (iii) $27^\circ 25'$ (iv) $27^\circ 15'$ (v) $27^\circ 10'$

Find angle θ such that $\cos \theta = 0.7112$

11.

From Table of Natural Cosines

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'2'	3'	4'	5'	
44	0.7193	0.7181	0.7169	0.7157	0.7145	0.7133	0.7120	0.7108	0.7096	0.7083	2	4	6	8	10

- (i) $44^\circ 30'$ (ii) $44^\circ 50'$ (iii) $44^\circ 35'$ (iv) $44^\circ 45'$ (v) $44^\circ 40'$

Find angle θ such that $\tan \theta = 0.4512$

12.

From Table of Natural Tangents

x°	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'2'	3'	4'	5'	
24	0.4452	0.4473	0.4494	0.4515	0.4536	0.4557	0.4578	0.4599	0.4621	0.4642	4	7	11	14	18

- (i) $24^\circ 27'$ (ii) $24^\circ 17'$ (iii) $24^\circ 22'$ (iv) $24^\circ 12'$ (v) $24^\circ 7'$

Assignment Key

1) (v)

2) (ii)

3) (iii)

4) (ii)

5) (i)

6) (v)

7) (iii)

8) (iv)

9) (iii)

10) (i)

11) (v)

12) (ii)