



1. $\sec 60^\circ \sin 90^\circ \cos 30^\circ - \operatorname{cosec} 90^\circ \sec 45^\circ \operatorname{cosec} 60^\circ =$

- (i) $(\sqrt{3} - \frac{2}{3}\sqrt{6})$ (ii) $(\sqrt{3} - 4)$ (iii) $(\sqrt{6} - \frac{2}{3}\sqrt{6})$ (iv) $(\sqrt{3} - \frac{2}{3}\sqrt{6})$ (v) $(\sqrt{\frac{1}{3}} - \frac{2}{3}\sqrt{6})$

2. $\frac{\cot 45^\circ \cos 30^\circ + \sin 0^\circ \operatorname{cosec} 45^\circ}{\cos 30^\circ \cot 30^\circ \sin 90^\circ - \cot 60^\circ \sec 0^\circ \sin 45^\circ} =$

- (i) $(\frac{9}{25}\sqrt{\frac{1}{3}} + \frac{1}{25}\sqrt{18})$ (ii) $(\frac{9}{25}\sqrt{3} + \frac{18}{25})$ (iii) $(\frac{9}{25}\sqrt{3} + \frac{1}{25}\sqrt{18})$ (iv) $(\frac{9}{25}\sqrt{5} + \frac{1}{25}\sqrt{18})$ (v) $(\frac{9}{25}\sqrt{3} + \frac{1}{25}\sqrt{18})$

3. $\frac{\sin 48^\circ}{\cos 42^\circ} =$

- (i) -1 (ii) 0 (iii) 1 (iv) $\tan 42^\circ$ (v) $\tan 48^\circ$

4. $\frac{\cos 44^\circ}{\sin 46^\circ} =$

- (i) $\tan 44^\circ$ (ii) 0 (iii) 1 (iv) $\tan 46^\circ$ (v) -1

5. $\frac{\tan 27^\circ}{\cot 63^\circ} =$

- (i) $\tan 63^\circ$ (ii) $\tan 27^\circ$ (iii) -1 (iv) 1 (v) 0

6. $\frac{\cot 7^\circ}{\tan 83^\circ} =$

- (i) -1 (ii) $\tan 7^\circ$ (iii) 1 (iv) $\tan 83^\circ$ (v) 0

7. $\frac{\sec 82^\circ}{\operatorname{cosec} 8^\circ} =$

- (i) 1 (ii) 0 (iii) $\tan 8^\circ$ (iv) $\tan 82^\circ$ (v) -1

8. $\frac{\operatorname{cosec} 46^\circ}{\sec 44^\circ} =$

- (i) $\tan 46^\circ$ (ii) 0 (iii) $\tan 44^\circ$ (iv) -1 (v) 1

9. $\frac{\sin 10^\circ \cos 7^\circ}{\cos 80^\circ \sin 83^\circ} =$

- (i) $\tan 10^\circ$ (ii) 0 (iii) -1 (iv) $\tan 7^\circ$ (v) 1

10. $\frac{\cos 43^\circ \sin 2^\circ}{\sin 47^\circ \cos 88^\circ} =$

- (i) $\tan 43^\circ$ (ii) -1 (iii) $\tan 2^\circ$ (iv) 0 (v) 1

11. $\frac{\tan 88^\circ \cot 43^\circ}{\cot 2^\circ \tan 47^\circ} =$
(i) 1 (ii) $\tan 88^\circ$ (iii) 0 (iv) $\tan 43^\circ$ (v) -1

12. $\frac{\cot 72^\circ \tan 9^\circ}{\tan 18^\circ \cot 81^\circ} =$
(i) 0 (ii) 1 (iii) $\tan 72^\circ$ (iv) -1 (v) $\tan 9^\circ$

13. $\frac{\sec 64^\circ \operatorname{cosec} 30^\circ}{\operatorname{cosec} 26^\circ \sec 60^\circ} =$
(i) 0 (ii) $\tan 64^\circ$ (iii) -1 (iv) 1 (v) $\tan 30^\circ$

14. $\frac{\operatorname{cosec} 87^\circ \sec 82^\circ}{\sec 3^\circ \operatorname{cosec} 8^\circ} =$
(i) $\tan 87^\circ$ (ii) 1 (iii) -1 (iv) $\tan 82^\circ$ (v) 0

15. $\sin 64^\circ - \cos 26^\circ =$
(i) 0 (ii) -1 (iii) $2\sin 64^\circ$ (iv) $2\sin 26^\circ$ (v) 1

16. $\cos 80^\circ - \sin 10^\circ =$
(i) $2\sin 10^\circ$ (ii) -1 (iii) $2\sin 80^\circ$ (iv) 1 (v) 0

17. $\tan 27^\circ - \cot 63^\circ =$
(i) $2\sin 63^\circ$ (ii) -1 (iii) 1 (iv) $2\sin 27^\circ$ (v) 0

18. $\cot 17^\circ - \tan 73^\circ =$
(i) $2\sin 73^\circ$ (ii) -1 (iii) 1 (iv) $2\sin 17^\circ$ (v) 0

19. $\sec 35^\circ - \operatorname{cosec} 55^\circ =$
(i) $2\sin 55^\circ$ (ii) 0 (iii) 1 (iv) $2\sin 35^\circ$ (v) -1

20. $\operatorname{cosec} 67^\circ - \sec 23^\circ =$
(i) 1 (ii) $2\sin 23^\circ$ (iii) 0 (iv) $2\sin 67^\circ$ (v) -1

21. $\sin 54^\circ \cos 62^\circ - \cos 36^\circ \sin 28^\circ =$
(i) $2\sin 54^\circ$ (ii) 0 (iii) 1 (iv) -1 (v) $2\sin 62^\circ$

22. $\cos 54^\circ \sin 34^\circ - \sin 36^\circ \cos 56^\circ =$
(i) 1 (ii) $2\sin 54^\circ$ (iii) 0 (iv) -1 (v) $2\sin 34^\circ$

23. $\tan 55^\circ \cot 45^\circ - \cot 35^\circ \tan 45^\circ =$
(i) $2\sin 55^\circ$ (ii) 1 (iii) $2\sin 45^\circ$ (iv) -1 (v) 0

24. $\cot 44^\circ \tan 45^\circ - \tan 46^\circ \cot 45^\circ =$
(i) 0 (ii) $2\sin 45^\circ$ (iii) $2\sin 44^\circ$ (iv) -1 (v) 1

25. $\sec 80^\circ \operatorname{cosec} 22^\circ - \operatorname{cosec} 10^\circ \sec 68^\circ =$
(i) -1 (ii) 1 (iii) 0 (iv) $2\sin 80^\circ$ (v) $2\sin 22^\circ$

26. $\operatorname{cosec} 48^\circ \sec 24^\circ - \sec 42^\circ \operatorname{cosec} 66^\circ =$

- (i) $2\sin 48^\circ$ (ii) -1 (iii) 1 (iv) $2\sin 24^\circ$ (v) 0

27. $\sin 0^\circ \cos 45^\circ + \cos 0^\circ \sin 45^\circ =$

- (i) $\frac{1}{2}\sqrt{-1}$ (ii) $\frac{1}{2}\sqrt{5}$ (iii) $\frac{1}{2}\sqrt{2}$ (iv) $\frac{1}{2}\sqrt{2}$ (v) 1

28. Find the value of $\tan 25^\circ \tan 80^\circ \tan 65^\circ \tan 10^\circ$

- (i) 1 (ii) 2 (iii) 0 (iv) -1 (v) undefined

29. Find the value of $\cot 40^\circ \cot 10^\circ \cot 50^\circ \cot 80^\circ$

- (i) undefined (ii) 2 (iii) 1 (iv) 0 (v) -1

30. $\frac{\sin^2 30^\circ + \sin^2 60^\circ}{\cos^2 5^\circ + \cos^2 85^\circ} =$

- (i) undefined (ii) 1 (iii) 2 (iv) 0 (v) -1

31. $\frac{\sin 10^\circ \cos 80^\circ + \cos 10^\circ \sin 80^\circ}{\sin 40^\circ \cos 50^\circ + \cos 40^\circ \sin 50^\circ} =$

- (i) 1 (ii) 0 (iii) undefined (iv) -1 (v) 2

32. $\sin 40^\circ + \cos 29^\circ =$

- (i) $\cos 40^\circ + \sin 29^\circ$ (ii) $\cos 50^\circ + \cos 61^\circ$ (iii) $\sin 40^\circ + \sin 29^\circ$ (iv) $\cos 50^\circ + \sin 61^\circ$

33. $\cos 43^\circ + \sin 53^\circ =$

- (i) $\sin 43^\circ + \cos 53^\circ$ (ii) $\sin 47^\circ + \cos 37^\circ$ (iii) $\cos 43^\circ + \cos 53^\circ$ (iv) $\sin 47^\circ + \sin 37^\circ$

34. $\tan 47^\circ + \cot 77^\circ =$

- (i) $\cot 43^\circ + \cot 13^\circ$ (ii) $\tan 47^\circ + \tan 77^\circ$ (iii) $\cot 43^\circ + \tan 13^\circ$ (iv) $\cot 47^\circ + \tan 77^\circ$

35. $\cot 34^\circ + \tan 25^\circ =$

- (i) $\tan 34^\circ + \cot 25^\circ$ (ii) $\cot 34^\circ + \cot 25^\circ$ (iii) $\tan 56^\circ + \cot 65^\circ$ (iv) $\tan 56^\circ + \tan 65^\circ$

36. $\sec 79^\circ + \operatorname{cosec} 69^\circ =$

- (i) $\operatorname{cosec} 11^\circ + \sec 21^\circ$ (ii) $\sec 79^\circ + \sec 69^\circ$ (iii) $\operatorname{cosec} 11^\circ + \operatorname{cosec} 21^\circ$ (iv) $\operatorname{cosec} 79^\circ + \sec 69^\circ$

37. $\operatorname{cosec} 19^\circ + \sec 73^\circ =$

- (i) $\sec 19^\circ + \operatorname{cosec} 73^\circ$ (ii) $\operatorname{cosec} 19^\circ + \operatorname{cosec} 73^\circ$ (iii) $\sec 71^\circ + \sec 17^\circ$ (iv) $\sec 71^\circ + \operatorname{cosec} 17^\circ$

Assignment Key

1) (iv)	2) (iii)	3) (iii)	4) (iii)	5) (iv)	6) (iii)
7) (i)	8) (v)	9) (v)	10) (v)	11) (i)	12) (ii)
13) (iv)	14) (ii)	15) (i)	16) (v)	17) (v)	18) (v)
19) (ii)	20) (iii)	21) (ii)	22) (iii)	23) (v)	24) (i)
25) (iii)	26) (v)	27) (iii)	28) (i)	29) (iii)	30) (ii)
31) (i)	32) (iv)	33) (ii)	34) (iii)	35) (iii)	36) (i)
37) (iv)					