



1. $\tan 60^\circ \sec 45^\circ - \sin 90^\circ \sec 60^\circ =$

- (i) $(\sqrt{6}-1)$ (ii) $(\sqrt{3}-2)$ (iii) $(\sqrt{9}-2)$ (iv) $(\sqrt{6}-2)$ (v) $(\sqrt{6}-3)$

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

- (i) $(-\frac{1}{3}\sqrt{6}+2)$ (ii) $(-\frac{1}{3}\sqrt{6}+\frac{1}{9}\sqrt{18})$ (iii) $(-\frac{1}{3}\sqrt{4}+\frac{1}{9}\sqrt{18})$ (iv) $(-\frac{1}{3}\sqrt{6}+\frac{1}{9}\sqrt{18})$ (v) $(-\frac{1}{3}\sqrt{8}+\frac{1}{9}\sqrt{18})$

3. $\frac{\sin 18^\circ}{\cos 72^\circ} =$

- (i) -1 (ii) $\tan 18^\circ$ (iii) 1 (iv) $\tan 72^\circ$ (v) 0

4. $\frac{\cos 15^\circ}{\sin 75^\circ} =$

- (i) -1 (ii) 0 (iii) $\tan 75^\circ$ (iv) 1 (v) $\tan 15^\circ$

5. $\frac{\tan 42^\circ}{\cot 48^\circ} =$

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

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

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

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

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

8. $\frac{\operatorname{cosec} 21^\circ}{\sec 69^\circ} =$

- (i) $\tan 21^\circ$ (ii) $\tan 69^\circ$ (iii) -1 (iv) 1 (v) 0

9. $\frac{\sin 8^\circ \cos 85^\circ}{\cos 82^\circ \sin 5^\circ} =$

- (i) -1 (ii) $\tan 85^\circ$ (iii) 1 (iv) $\tan 8^\circ$ (v) 0

10. $\frac{\cos 53^\circ \sin 33^\circ}{\sin 37^\circ \cos 57^\circ} =$

- (i) $\tan 53^\circ$ (ii) $\tan 33^\circ$ (iii) -1 (iv) 0 (v) 1

11. $\frac{\tan 8^\circ \cot 12^\circ}{\cot 82^\circ \tan 78^\circ} =$

- (i) 0 (ii) -1 (iii) 1 (iv) $\tan 8^\circ$ (v) $\tan 12^\circ$

12. $\frac{\cot 81^\circ \tan 74^\circ}{\tan 9^\circ \cot 16^\circ} =$
(i) $\tan 74^\circ$ (ii) 0 (iii) -1 (iv) 1 (v) $\tan 81^\circ$

13. $\frac{\sec 56^\circ \operatorname{cosec} 87^\circ}{\operatorname{cosec} 34^\circ \sec 3^\circ} =$
(i) $\tan 87^\circ$ (ii) -1 (iii) 1 (iv) 0 (v) $\tan 56^\circ$

14. $\frac{\operatorname{cosec} 15^\circ \sec 3^\circ}{\sec 75^\circ \operatorname{cosec} 87^\circ} =$
(i) 0 (ii) $\tan 3^\circ$ (iii) 1 (iv) -1 (v) $\tan 15^\circ$

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

16. $\cos 8^\circ - \sin 82^\circ =$
(i) 1 (ii) $2\sin 8^\circ$ (iii) 0 (iv) -1 (v) $2\sin 82^\circ$

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

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

19. $\sec 44^\circ - \operatorname{cosec} 46^\circ =$
(i) 0 (ii) $2\sin 46^\circ$ (iii) 1 (iv) $2\sin 44^\circ$ (v) -1

20. $\operatorname{cosec} 38^\circ - \sec 52^\circ =$
(i) $2\sin 52^\circ$ (ii) 0 (iii) $2\sin 38^\circ$ (iv) -1 (v) 1

21. $\sin 83^\circ \cos 68^\circ - \cos 7^\circ \sin 22^\circ =$
(i) -1 (ii) $2\sin 83^\circ$ (iii) $2\sin 68^\circ$ (iv) 0 (v) 1

22. $\cos 40^\circ \sin 14^\circ - \sin 50^\circ \cos 76^\circ =$
(i) 0 (ii) -1 (iii) $2\sin 40^\circ$ (iv) 1 (v) $2\sin 14^\circ$

23. $\tan 17^\circ \cot 32^\circ - \cot 73^\circ \tan 58^\circ =$
(i) $2\sin 32^\circ$ (ii) 0 (iii) $2\sin 17^\circ$ (iv) 1 (v) -1

24. $\cot 22^\circ \tan 38^\circ - \tan 68^\circ \cot 52^\circ =$
(i) 0 (ii) 1 (iii) -1 (iv) $2\sin 38^\circ$ (v) $2\sin 22^\circ$

25. $\sec 86^\circ \operatorname{cosec} 2^\circ - \operatorname{cosec} 4^\circ \sec 88^\circ =$
(i) 0 (ii) $2\sin 2^\circ$ (iii) $2\sin 86^\circ$ (iv) 1 (v) -1

26. $\operatorname{cosec} 52^\circ \sec 14^\circ - \sec 38^\circ \operatorname{cosec} 76^\circ =$
(i) $2\sin 14^\circ$ (ii) 0 (iii) 1 (iv) -1 (v) $2\sin 52^\circ$

27. Find the value of $\tan 35^\circ \tan 10^\circ \tan 55^\circ \tan 80^\circ$

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

28. Find the value of $\cot 75^\circ \cot 10^\circ \cot 15^\circ \cot 80^\circ$

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

29. $\sin 60^\circ + \cos 31^\circ =$

- (i) $\cos 30^\circ + \cos 59^\circ$ (ii) $\cos 60^\circ + \sin 31^\circ$ (iii) $\sin 60^\circ + \sin 31^\circ$ (iv) $\cos 30^\circ + \sin 59^\circ$

30. $\cos 35^\circ + \sin 51^\circ =$

- (i) $\cos 35^\circ + \cos 51^\circ$ (ii) $\sin 55^\circ + \cos 39^\circ$ (iii) $\sin 55^\circ + \sin 39^\circ$ (iv) $\sin 35^\circ + \cos 51^\circ$

31. $\tan 36^\circ + \cot 43^\circ =$

- (i) $\tan 36^\circ + \tan 43^\circ$ (ii) $\cot 54^\circ + \cot 47^\circ$ (iii) $\cot 54^\circ + \tan 47^\circ$ (iv) $\cot 36^\circ + \tan 43^\circ$

32. $\cot 55^\circ + \tan 15^\circ =$

- (i) $\tan 35^\circ + \cot 75^\circ$ (ii) $\cot 55^\circ + \cot 15^\circ$ (iii) $\tan 35^\circ + \tan 75^\circ$ (iv) $\tan 55^\circ + \cot 15^\circ$

33. $\sec 40^\circ + \operatorname{cosec} 42^\circ =$

- (i) $\sec 40^\circ + \sec 42^\circ$ (ii) $\operatorname{cosec} 40^\circ + \sec 42^\circ$ (iii) $\operatorname{cosec} 50^\circ + \operatorname{cosec} 48^\circ$ (iv) $\operatorname{cosec} 50^\circ + \sec 48^\circ$

34. $\operatorname{cosec} 53^\circ + \sec 16^\circ =$

- (i) $\sec 37^\circ + \operatorname{cosec} 74^\circ$ (ii) $\sec 53^\circ + \operatorname{cosec} 16^\circ$ (iii) $\sec 37^\circ + \sec 74^\circ$ (iv) $\operatorname{cosec} 53^\circ + \operatorname{cosec} 16^\circ$

Assignment Key

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