



1. $\cot 30^\circ \sin 0^\circ \cos 90^\circ - \cot 60^\circ \cot 45^\circ \operatorname{cosec} 90^\circ =$

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

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

- (i) $(\frac{40}{93}\sqrt{6} - \frac{5}{93}\sqrt{6})$ (ii) $(\frac{40}{93} - \frac{5}{93}\sqrt{6})$ (iii) $(\frac{40}{93}\sqrt{3} - \frac{10}{31})$ (iv) $(\frac{40}{93}\sqrt{3} - \frac{5}{93}\sqrt{6})$ (v) $(\frac{40}{93}\sqrt{3} - \frac{5}{93}\sqrt{6})$

3. $\frac{\sin 25^\circ}{\cos 65^\circ} =$

- (i) $\tan 25^\circ$ (ii) $\tan 65^\circ$ (iii) 0 (iv) -1 (v) 1

4. $\frac{\cos 45^\circ}{\sin 45^\circ} =$

- (i) $\tan 45^\circ$ (ii) 1 (iii) -1 (iv) 0

5. $\frac{\tan 84^\circ}{\cot 6^\circ} =$

- (i) $\tan 6^\circ$ (ii) -1 (iii) 0 (iv) 1 (v) $\tan 84^\circ$

6. $\frac{\cot 58^\circ}{\tan 32^\circ} =$

- (i) -1 (ii) 0 (iii) $\tan 58^\circ$ (iv) $\tan 32^\circ$ (v) 1

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

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

8. $\frac{\operatorname{cosec} 70^\circ}{\sec 20^\circ} =$

- (i) $\tan 20^\circ$ (ii) 0 (iii) 1 (iv) $\tan 70^\circ$ (v) -1

9. $\frac{\sin 67^\circ \cos 5^\circ}{\cos 23^\circ \sin 85^\circ} =$

- (i) $\tan 67^\circ$ (ii) 1 (iii) -1 (iv) $\tan 5^\circ$ (v) 0

10. $\frac{\cos 25^\circ \sin 86^\circ}{\sin 65^\circ \cos 4^\circ} =$

- (i) -1 (ii) 1 (iii) $\tan 25^\circ$ (iv) 0 (v) $\tan 86^\circ$

11. $\frac{\tan 68^\circ \cot 28^\circ}{\cot 22^\circ \tan 62^\circ} =$
(i) $\tan 68^\circ$ (ii) 0 (iii) -1 (iv) $\tan 28^\circ$ (v) 1

12. $\frac{\cot 22^\circ \tan 61^\circ}{\tan 68^\circ \cot 29^\circ} =$
(i) $\tan 22^\circ$ (ii) 0 (iii) 1 (iv) -1 (v) $\tan 61^\circ$

13. $\frac{\sec 21^\circ \operatorname{cosec} 2^\circ}{\operatorname{cosec} 69^\circ \sec 88^\circ} =$
(i) 1 (ii) $\tan 21^\circ$ (iii) 0 (iv) $\tan 2^\circ$ (v) -1

14. $\frac{\operatorname{cosec} 37^\circ \sec 55^\circ}{\sec 53^\circ \operatorname{cosec} 35^\circ} =$
(i) $\tan 37^\circ$ (ii) $\tan 55^\circ$ (iii) -1 (iv) 1 (v) 0

15. $\sin 45^\circ - \cos 45^\circ =$
(i) 1 (ii) $2\sin 45^\circ$ (iii) -1 (iv) 0

16. $\cos 29^\circ - \sin 61^\circ =$
(i) 1 (ii) -1 (iii) 0 (iv) $2\sin 61^\circ$ (v) $2\sin 29^\circ$

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

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

19. $\sec 87^\circ - \operatorname{cosec} 3^\circ =$
(i) 0 (ii) 1 (iii) $2\sin 3^\circ$ (iv) -1 (v) $2\sin 87^\circ$

20. $\operatorname{cosec} 21^\circ - \sec 69^\circ =$
(i) $2\sin 69^\circ$ (ii) $2\sin 21^\circ$ (iii) 1 (iv) -1 (v) 0

21. $\sin 33^\circ \cos 49^\circ - \cos 57^\circ \sin 41^\circ =$
(i) 0 (ii) $2\sin 49^\circ$ (iii) $2\sin 33^\circ$ (iv) -1 (v) 1

22. $\cos 58^\circ \sin 75^\circ - \sin 32^\circ \cos 15^\circ =$
(i) 1 (ii) $2\sin 58^\circ$ (iii) $2\sin 75^\circ$ (iv) 0 (v) -1

23. $\tan 17^\circ \cot 31^\circ - \cot 73^\circ \tan 59^\circ =$
(i) $2\sin 17^\circ$ (ii) 1 (iii) $2\sin 31^\circ$ (iv) 0 (v) -1

24. $\cot 40^\circ \tan 72^\circ - \tan 50^\circ \cot 18^\circ =$
(i) $2\sin 40^\circ$ (ii) -1 (iii) 1 (iv) 0 (v) $2\sin 72^\circ$

25. $\sec 54^\circ \operatorname{cosec} 20^\circ - \operatorname{cosec} 36^\circ \sec 70^\circ =$
(i) -1 (ii) 1 (iii) 0 (iv) $2\sin 20^\circ$ (v) $2\sin 54^\circ$

26. $\operatorname{cosec} 85^\circ \sec 14^\circ - \sec 5^\circ \operatorname{cosec} 76^\circ =$

- (i) -1 (ii) 1 (iii) 0 (iv) $2\sin 14^\circ$ (v) $2\sin 85^\circ$

27. Find the value of $\tan^2 20^\circ \tan^2 70^\circ$

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

28. Find the value of $\cot 5^\circ \cot 25^\circ \cot 85^\circ \cot 65^\circ$

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

29. $\sin 64^\circ + \cos 75^\circ =$

- (i) $\cos 64^\circ + \sin 75^\circ$ (ii) $\sin 64^\circ + \sin 75^\circ$ (iii) $\cos 26^\circ + \sin 15^\circ$ (iv) $\cos 26^\circ + \cos 15^\circ$

30. $\cos 41^\circ + \sin 12^\circ =$

- (i) $\sin 49^\circ + \sin 78^\circ$ (ii) $\sin 49^\circ + \cos 78^\circ$ (iii) $\sin 41^\circ + \cos 12^\circ$ (iv) $\cos 41^\circ + \cos 12^\circ$

31. $\tan 46^\circ + \cot 36^\circ =$

- (i) $\cot 44^\circ + \tan 54^\circ$ (ii) $\tan 46^\circ + \tan 36^\circ$ (iii) $\cot 44^\circ + \cot 54^\circ$ (iv) $\cot 46^\circ + \tan 36^\circ$

32. $\cot 12^\circ + \tan 18^\circ =$

- (i) $\tan 78^\circ + \tan 72^\circ$ (ii) $\cot 12^\circ + \cot 18^\circ$ (iii) $\tan 78^\circ + \cot 72^\circ$ (iv) $\tan 12^\circ + \cot 18^\circ$

33. $\sec 11^\circ + \operatorname{cosec} 38^\circ =$

- (i) $\sec 11^\circ + \sec 38^\circ$ (ii) $\operatorname{cosec} 79^\circ + \operatorname{cosec} 52^\circ$ (iii) $\operatorname{cosec} 79^\circ + \sec 52^\circ$ (iv) $\operatorname{cosec} 11^\circ + \sec 38^\circ$

34. $\operatorname{cosec} 11^\circ + \sec 47^\circ =$

- (i) $\sec 79^\circ + \operatorname{cosec} 43^\circ$ (ii) $\sec 11^\circ + \operatorname{cosec} 47^\circ$ (iii) $\sec 79^\circ + \sec 43^\circ$ (iv) $\operatorname{cosec} 11^\circ + \operatorname{cosec} 47^\circ$

Assignment Key

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