



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

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

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

- (i)
- $\frac{2}{9}\sqrt{18}$
- (ii)
- $\frac{2}{9}\sqrt{20}$
- (iii)
- $\frac{2}{9}\sqrt{18}$
- (iv) 4 (v)
- $\frac{2}{9}\sqrt{15}$

3. $\frac{\sin 55^\circ}{\cos 35^\circ} =$

- (i)
- $\tan 35^\circ$
- (ii) -1 (iii) 0 (iv)
- $\tan 55^\circ$
- (v) 1

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

- (i) 1 (ii) 0 (iii)
- $\tan 86^\circ$
- (iv)
- $\tan 4^\circ$
- (v) -1

5. $\frac{\tan 52^\circ}{\cot 38^\circ} =$

- (i) -1 (ii)
- $\tan 38^\circ$
- (iii)
- $\tan 52^\circ$
- (iv) 1 (v) 0

6. $\frac{\cot 2^\circ}{\tan 88^\circ} =$

- (i) 1 (ii)
- $\tan 2^\circ$
- (iii)
- $\tan 88^\circ$
- (iv) -1 (v) 0

7. $\frac{\sec 48^\circ}{\operatorname{cosec} 42^\circ} =$

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

8. $\frac{\operatorname{cosec} 66^\circ}{\sec 24^\circ} =$

- (i)
- $\tan 66^\circ$
- (ii) 0 (iii) 1 (iv) -1 (v)
- $\tan 24^\circ$

9. $\frac{\sin 85^\circ \cos 70^\circ}{\cos 5^\circ \sin 20^\circ} =$

- (i)
- $\tan 85^\circ$
- (ii) -1 (iii) 1 (iv)
- $\tan 70^\circ$
- (v) 0

10. $\frac{\cos 22^\circ \sin 45^\circ}{\sin 68^\circ \cos 45^\circ} =$

- (i) 1 (ii)
- $\tan 22^\circ$
- (iii)
- $\tan 45^\circ$
- (iv) -1 (v) 0

$$11. \frac{\tan 44^\circ \cot 24^\circ}{\cot 46^\circ \tan 66^\circ} =$$

- (i) $\tan 24^\circ$ (ii) 0 (iii) 1 (iv) -1 (v) $\tan 44^\circ$

$$12. \frac{\cot 71^\circ \tan 31^\circ}{\tan 19^\circ \cot 59^\circ} =$$

- (i) 0 (ii) $\tan 71^\circ$ (iii) $\tan 31^\circ$ (iv) 1 (v) -1

$$13. \frac{\sec 55^\circ \operatorname{cosec} 34^\circ}{\operatorname{cosec} 35^\circ \sec 56^\circ} =$$

- (i) 0 (ii) 1 (iii) $\tan 34^\circ$ (iv) $\tan 55^\circ$ (v) -1

$$14. \frac{\operatorname{cosec} 84^\circ \sec 8^\circ}{\sec 6^\circ \operatorname{cosec} 82^\circ} =$$

- (i) $\tan 8^\circ$ (ii) -1 (iii) 1 (iv) $\tan 84^\circ$ (v) 0

$$15. \sin 26^\circ - \cos 64^\circ =$$

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

$$16. \cos 21^\circ - \sin 69^\circ =$$

- (i) 0 (ii) $2\sin 69^\circ$ (iii) -1 (iv) 1 (v) $2\sin 21^\circ$

$$17. \tan 40^\circ - \cot 50^\circ =$$

- (i) $2\sin 40^\circ$ (ii) 1 (iii) -1 (iv) 0 (v) $2\sin 50^\circ$

$$18. \cot 83^\circ - \tan 7^\circ =$$

- (i) -1 (ii) $2\sin 83^\circ$ (iii) 0 (iv) $2\sin 7^\circ$ (v) 1

$$19. \sec 60^\circ - \operatorname{cosec} 30^\circ =$$

- (i) -1 (ii) $2\sin 30^\circ$ (iii) $2\sin 60^\circ$ (iv) 0 (v) 1

$$20. \operatorname{cosec} 81^\circ - \sec 9^\circ =$$

- (i) $2\sin 81^\circ$ (ii) 0 (iii) -1 (iv) $2\sin 9^\circ$ (v) 1

$$21. \sin 50^\circ \cos 49^\circ - \cos 40^\circ \sin 41^\circ =$$

- (i) $2\sin 49^\circ$ (ii) $2\sin 50^\circ$ (iii) 0 (iv) -1 (v) 1

$$22. \cos 79^\circ \sin 4^\circ - \sin 11^\circ \cos 86^\circ =$$

- (i) -1 (ii) $2\sin 79^\circ$ (iii) 1 (iv) 0 (v) $2\sin 4^\circ$

$$23. \tan 74^\circ \cot 11^\circ - \cot 16^\circ \tan 79^\circ =$$

- (i) $2\sin 74^\circ$ (ii) 1 (iii) -1 (iv) 0 (v) $2\sin 11^\circ$

$$24. \cot 82^\circ \tan 22^\circ - \tan 8^\circ \cot 68^\circ =$$

- (i) 0 (ii) $2\sin 82^\circ$ (iii) -1 (iv) $2\sin 22^\circ$ (v) 1

$$25. \sec 35^\circ \operatorname{cosec} 37^\circ - \operatorname{cosec} 55^\circ \sec 53^\circ =$$

- (i) -1 (ii) $2\sin 35^\circ$ (iii) 0 (iv) 1 (v) $2\sin 37^\circ$

26. $\operatorname{cosec} 88^\circ \sec 56^\circ - \sec 2^\circ \operatorname{cosec} 34^\circ =$

- (i) -1 (ii) $2\sin 56^\circ$ (iii) 0 (iv) 1 (v) $2\sin 88^\circ$

27. $\sin 45^\circ \cos 60^\circ + \cos 45^\circ \sin 60^\circ =$

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

28. Find the value of $\tan 50^\circ \tan 30^\circ \tan 40^\circ \tan 60^\circ$

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

29. Find the value of $\cot 25^\circ \cot 20^\circ \cot 65^\circ \cot 70^\circ$

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

30.
$$\frac{\sin^2 60^\circ + \sin^2 30^\circ}{\cos^2 50^\circ + \cos^2 40^\circ} =$$

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

31.
$$\frac{\sin 40^\circ \cos 50^\circ + \cos 40^\circ \sin 50^\circ}{\sin 15^\circ \cos 75^\circ + \cos 15^\circ \sin 75^\circ} =$$

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

32. $\sin 41^\circ + \cos 69^\circ =$

- (i) $\sin 41^\circ + \sin 69^\circ$ (ii) $\cos 49^\circ + \sin 21^\circ$ (iii) $\cos 41^\circ + \sin 69^\circ$ (iv) $\cos 49^\circ + \cos 21^\circ$

33. $\cos 34^\circ + \sin 14^\circ =$

- (i) $\sin 56^\circ + \sin 76^\circ$ (ii) $\sin 56^\circ + \cos 76^\circ$ (iii) $\cos 34^\circ + \cos 14^\circ$ (iv) $\sin 34^\circ + \cos 14^\circ$

34. $\tan 25^\circ + \cot 51^\circ =$

- (i) $\cot 65^\circ + \tan 39^\circ$ (ii) $\tan 25^\circ + \tan 51^\circ$ (iii) $\cot 65^\circ + \cot 39^\circ$ (iv) $\cot 25^\circ + \tan 51^\circ$

35. $\cot 42^\circ + \tan 17^\circ =$

- (i) $\tan 48^\circ + \cot 73^\circ$ (ii) $\tan 42^\circ + \cot 17^\circ$ (iii) $\cot 42^\circ + \cot 17^\circ$ (iv) $\tan 48^\circ + \tan 73^\circ$

36. $\sec 80^\circ + \operatorname{cosec} 58^\circ =$

- (i) $\operatorname{cosec} 80^\circ + \sec 58^\circ$ (ii) $\sec 80^\circ + \sec 58^\circ$ (iii) $\operatorname{cosec} 10^\circ + \operatorname{cosec} 32^\circ$ (iv) $\operatorname{cosec} 10^\circ + \sec 32^\circ$

37. $\operatorname{cosec} 16^\circ + \sec 70^\circ =$

- (i) $\sec 74^\circ + \operatorname{cosec} 20^\circ$ (ii) $\sec 16^\circ + \operatorname{cosec} 70^\circ$ (iii) $\sec 74^\circ + \sec 20^\circ$ (iv) $\operatorname{cosec} 16^\circ + \operatorname{cosec} 70^\circ$

Assignment Key

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