EduSahara™ Assignment

Name : Trigonometric Ratio Angle Simplification

Chapter : Introduction to Trigonometry

Grade : CBSE Grade X

1. The value of $\sin 83°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\sin 83°$ (ii) $\cos 83°$ (iii) $-\cos 83°$ (iv) $-\sin 83°$

2. The value of $\cos 68°$ in terms of an angle between $0°$ and $90°$ is

   (i) $-\sin 68°$ (ii) $\sin 68°$ (iii) $-\cos 68°$ (iv) $\cos 68°$

3. The value of $\tan 27°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\cot 27°$ (ii) $\tan 27°$ (iii) $-\cot 27°$ (iv) $-\tan 27°$

4. The value of $\cot 73°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\cot 73°$ (ii) $\tan 73°$ (iii) $-\cot 73°$ (iv) $-\tan 73°$

5. The value of $\sec 74°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\sec 74°$ (ii) $\operatorname{cosec} 74°$ (iii) $-\sec 74°$ (iv) $-\operatorname{cosec} 74°$

6. The value of $\operatorname{cosec} 25°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\operatorname{cosec} 25°$ (ii) $-\sec 25°$ (iii) $-\operatorname{cosec} 25°$ (iv) $\sec 25°$

7. The value of $\sin 166°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\cos 76°$ (ii) $-\cos 76°$ (iii) $-\sin 76°$ (iv) $\sin 76°$

8. The value of $\cos 114°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\sin 24°$ (ii) $\cos 24°$ (iii) $-\cos 24°$ (iv) $-\sin 24°$

9. The value of $\tan 178°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\tan 88°$ (ii) $\cot 88°$ (iii) $-\cot 88°$ (iv) $-\tan 88°$

10. The value of $\cot 166°$ in terms of an angle between $0°$ and $90°$ is

    (i) $-\cot 76°$ (ii) $\cot 76°$ (iii) $-\tan 76°$ (iv) $\tan 76°$

11. The value of $\sec 142°$ in terms of an angle between $0°$ and $90°$ is

    (i) $\operatorname{cosec} 52°$ (ii) $-\operatorname{cosec} 52°$ (iii) $-\sec 52°$ (iv) $\sec 52°$

12. The value of $\operatorname{cosec} 166°$ in terms of an angle between $0°$ and $90°$ is

    (i) $-\sec 76°$ (ii) $\operatorname{cosec} 76°$ (iii) $-\operatorname{cosec} 76°$ (iv) $\sec 76°$

13. The value of $\sin 192°$ in terms of an angle between $0°$ and $90°$ is

    (i) $\cos 12°$ (ii) $-\sin 12°$ (iii) $\sin 12°$ (iv) $-\cos 12°$

14. The value of $\cos 211°$ in terms of an angle between $0°$ and $90°$ is

    (i) $-\sin 31°$ (ii) $-\cos 31°$ (iii) $\cos 31°$ (iv) $\sin 31°$

15. The value of $\tan 203°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\cot 23°$ (ii) $\cot 23°$ (iii) $-\tan 23°$ (iv) $\tan 23°$

16. The value of $\cot 190°$ in terms of an angle between $0°$ and $90°$ is

(i) $\cot 10°$ (ii) $-\tan 10°$ (iii) $\tan 10°$ (iv) $-\cot 10°$

17. The value of $\sec 265°$ in terms of an angle between $0°$ and $90°$ is

(i) $\sec 85°$ (ii) $-\operatorname{cosec} 85°$ (iii) $-\sec 85°$ (iv) $\operatorname{cosec} 85°$

18. The value of $\operatorname{cosec} 211°$ in terms of an angle between $0°$ and $90°$ is

(i) $\sec 31°$ (ii) $\operatorname{cosec} 31°$ (iii) $-\operatorname{cosec} 31°$ (iv) $-\sec 31°$

19. The value of $\sin 300°$ in terms of an angle between $0°$ and $90°$ is

(i) $\cos 30°$ (ii) $\sin 30°$ (iii) $-\cos 30°$ (iv) $-\sin 30°$

20. The value of $\cos 295°$ in terms of an angle between $0°$ and $90°$ is

(i) $\cos 25°$ (ii) $\sin 25°$ (iii) $-\cos 25°$ (iv) $-\sin 25°$

21. The value of $\tan 329°$ in terms of an angle between $0°$ and $90°$ is

(i) $\cot 59°$ (ii) $\tan 59°$ (iii) $-\tan 59°$ (iv) $-\cot 59°$

22. The value of $\cot 286°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\cot 16°$ (ii) $\cot 16°$ (iii) $-\tan 16°$ (iv) $\tan 16°$

23. The value of $\sec 326°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\operatorname{cosec} 56°$ (ii) $-\sec 56°$ (iii) $\sec 56°$ (iv) $\operatorname{cosec} 56°$

24. The value of $\operatorname{cosec} 287°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\sec 17°$ (ii) $\operatorname{cosec} 17°$ (iii) $\sec 17°$ (iv) $-\operatorname{cosec} 17°$

Assignment Key

1) (i)	2) (iv)	3) (ii)	4) (i)	5) (i)	6) (i)
7) (i)	8) (iv)	9) (iii)	10) (iii)	11) (ii)	12) (iv)
13) (ii)	14) (ii)	15) (iv)	16) (i)	17) (iii)	18) (iii)
19) (iii)	20) (ii)	21) (iv)	22) (iii)	23) (iv)	24) (i)