EduSahara™ Assignment

Name : Trigonometric Ratio Angle Simplification

Chapter : Introduction to Trigonometry

Grade : CBSE Grade X

1. The value of $\sin 65°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\sin 65°$ (ii) $-\sin 65°$ (iii) $-\cos 65°$ (iv) $\cos 65°$

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

   (i) $\sin 27°$ (ii) $-\sin 27°$ (iii) $-\cos 27°$ (iv) $\cos 27°$

3. The value of $\tan 77°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\tan 77°$ (ii) $\cot 77°$ (iii) $-\tan 77°$ (iv) $-\cot 77°$

4. The value of $\cot 64°$ in terms of an angle between $0°$ and $90°$ is

   (i) $-\cot 64°$ (ii) $\cot 64°$ (iii) $\tan 64°$ (iv) $-\tan 64°$

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

   (i) $\sec 73°$ (ii) $-\operatorname{cosec} 73°$ (iii) $\operatorname{cosec} 73°$ (iv) $-\sec 73°$

6. The value of $\operatorname{cosec} 47°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\operatorname{cosec} 47°$ (ii) $-\operatorname{cosec} 47°$ (iii) $-\sec 47°$ (iv) $\sec 47°$

7. The value of $\sin 174°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\cos 84°$ (ii) $-\sin 84°$ (iii) $\sin 84°$ (iv) $-\cos 84°$

8. The value of $\cos 160°$ in terms of an angle between $0°$ and $90°$ is

   (i) $-\cos 70°$ (ii) $\cos 70°$ (iii) $\sin 70°$ (iv) $-\sin 70°$

9. The value of $\tan 152°$ in terms of an angle between $0°$ and $90°$ is

   (i) $\tan 62°$ (ii) $\cot 62°$ (iii) $-\tan 62°$ (iv) $-\cot 62°$

10. The value of $\cot 144°$ in terms of an angle between $0°$ and $90°$ is

    (i) $\tan 54°$ (ii) $-\cot 54°$ (iii) $-\tan 54°$ (iv) $\cot 54°$

11. The value of $\sec 122°$ in terms of an angle between $0°$ and $90°$ is

    (i) $-\sec 32°$ (ii) $\operatorname{cosec} 32°$ (iii) $-\operatorname{cosec} 32°$ (iv) $\sec 32°$

12. The value of $\operatorname{cosec} 91°$ in terms of an angle between $0°$ and $90°$ is

    (i) $-\operatorname{cosec} 1°$ (ii) $-\sec 1°$ (iii) $\operatorname{cosec} 1°$ (iv) $\sec 1°$

13. The value of $\sin 213°$ in terms of an angle between $0°$ and $90°$ is

    (i) $\cos 33°$ (ii) $\sin 33°$ (iii) $-\sin 33°$ (iv) $-\cos 33°$

14. The value of $\cos 210°$ in terms of an angle between $0°$ and $90°$ is

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

15. The value of $\tan 226°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\cot 46°$ (ii) $-\tan 46°$ (iii) $\cot 46°$ (iv) $\tan 46°$

16. The value of $\cot 221°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\cot 41°$ (ii) $\cot 41°$ (iii) $\tan 41°$ (iv) $-\tan 41°$

17. The value of $\sec 227°$ in terms of an angle between $0°$ and $90°$ is

(i) $\text{cosec}\, 47°$ (ii) $-\sec 47°$ (iii) $\sec 47°$ (iv) $-\text{cosec}\, 47°$

18. The value of $\text{cosec}\, 247°$ in terms of an angle between $0°$ and $90°$ is

(i) $\sec 67°$ (ii) $-\text{cosec}\, 67°$ (iii) $\text{cosec}\, 67°$ (iv) $-\sec 67°$

19. The value of $\sin 291°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\sin 21°$ (ii) $\cos 21°$ (iii) $-\cos 21°$ (iv) $\sin 21°$

20. The value of $\cos 320°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\sin 50°$ (ii) $\cos 50°$ (iii) $\sin 50°$ (iv) $-\cos 50°$

21. The value of $\tan 328°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\cot 58°$ (ii) $\cot 58°$ (iii) $-\tan 58°$ (iv) $\tan 58°$

22. The value of $\cot 317°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\cot 47°$ (ii) $-\tan 47°$ (iii) $\cot 47°$ (iv) $\tan 47°$

23. The value of $\sec 299°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\sec 29°$ (ii) $-\text{cosec}\, 29°$ (iii) $\text{cosec}\, 29°$ (iv) $\sec 29°$

24. The value of $\text{cosec}\, 335°$ in terms of an angle between $0°$ and $90°$ is

(i) $-\text{cosec}\, 65°$ (ii) $\text{cosec}\, 65°$ (iii) $-\sec 65°$ (iv) $\sec 65°$

Assignment Key

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