

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Trigonometrical Ratios****Name : Finding a Trigonometric Ratio given other Ratio**

1. Given $\sin A = \frac{5}{13}$, find $\cos A$

(i) $\frac{13}{12}$ (ii) $\frac{5}{12}$ (iii) $\frac{13}{5}$ (iv) $\frac{12}{13}$ (v) $\frac{12}{5}$

2. Given $\sin N = \frac{4}{5}$, find $\tan N$

(i) $\frac{5}{3}$ (ii) $\frac{5}{4}$ (iii) $\frac{4}{3}$ (iv) $\frac{3}{5}$ (v) $\frac{3}{4}$

3. Given $\sin H = \frac{4}{5}$, find $\cot H$

(i) $\frac{5}{4}$ (ii) $\frac{3}{5}$ (iii) $\frac{4}{3}$ (iv) $\frac{5}{3}$ (v) $\frac{3}{4}$

4. Given $\sin D = \frac{4}{5}$, find $\sec D$

(i) $\frac{5}{3}$ (ii) $\frac{3}{5}$ (iii) $\frac{5}{4}$ (iv) $\frac{3}{4}$ (v) $\frac{4}{3}$

5. Given $\sin J = \frac{4}{5}$, find $\operatorname{cosec} J$

(i) $\frac{3}{5}$ (ii) $\frac{5}{3}$ (iii) $\frac{5}{4}$ (iv) $\frac{3}{4}$ (v) $\frac{4}{3}$

6. Given $\cos P = \frac{4}{5}$, find $\sin P$

(i) $\frac{5}{4}$ (ii) $\frac{5}{3}$ (iii) $\frac{3}{4}$ (iv) $\frac{3}{5}$ (v) $\frac{4}{3}$

7. Given $\cos C = \frac{3}{5}$, find $\tan C$

(i) $\frac{4}{5}$ (ii) $\frac{5}{3}$ (iii) $\frac{4}{3}$ (iv) $\frac{5}{4}$ (v) $\frac{3}{4}$

8. Given $\cos P = \frac{3}{5}$, find $\cot P$

(i) $\frac{3}{4}$ (ii) $\frac{4}{3}$ (iii) $\frac{5}{4}$ (iv) $\frac{5}{3}$ (v) $\frac{4}{5}$

9. Given $\cos H = \frac{3}{5}$, find $\sec H$

(i) $\frac{4}{3}$ (ii) $\frac{5}{4}$ (iii) $\frac{4}{5}$ (iv) $\frac{5}{3}$ (v) $\frac{3}{4}$

10. Given $\cos P = \frac{15}{17}$, find $\operatorname{cosec} P$

(i) $\frac{8}{17}$ (ii) $\frac{17}{8}$ (iii) $\frac{17}{15}$ (iv) $\frac{8}{15}$ (v) $\frac{15}{8}$

11. Given $\tan H = \frac{5}{12}$, find $\sin H$

(i) $\frac{5}{13}$ (ii) $\frac{12}{5}$ (iii) $\frac{12}{13}$ (iv) $\frac{13}{5}$ (v) $\frac{13}{12}$

12. Given $\tan F = \frac{4}{3}$, find $\cos F$

(i) $\frac{3}{4}$ (ii) $\frac{5}{3}$ (iii) $\frac{5}{4}$ (iv) $\frac{4}{5}$ (v) $\frac{3}{5}$

13. Given $\tan G = \frac{8}{15}$, find $\cot G$

(i) $\frac{15}{17}$ (ii) $\frac{8}{17}$ (iii) $\frac{17}{8}$ (iv) $\frac{17}{15}$ (v) $\frac{15}{8}$

14. Given $\tan K = \frac{3}{4}$, find $\sec K$

(i) $\frac{3}{5}$ (ii) $\frac{5}{3}$ (iii) $\frac{4}{5}$ (iv) $\frac{5}{4}$ (v) $\frac{4}{3}$

15. Given $\tan N = \frac{3}{4}$, find $\operatorname{cosec} N$

(i) $\frac{5}{4}$ (ii) $\frac{4}{5}$ (iii) $\frac{3}{5}$ (iv) $\frac{4}{3}$ (v) $\frac{5}{3}$

16. Given $\cot N = \frac{4}{3}$, find $\sin N$

(i) $\frac{4}{5}$ (ii) $\frac{3}{4}$ (iii) $\frac{3}{5}$ (iv) $\frac{5}{3}$ (v) $\frac{5}{4}$

17. Given $\cot D = \frac{3}{4}$, find $\cos D$

(i) $\frac{4}{3}$ (ii) $\frac{5}{4}$ (iii) $\frac{5}{3}$ (iv) $\frac{4}{5}$ (v) $\frac{3}{5}$

18. Given $\cot N = \frac{3}{4}$, find $\tan N$

(i) $\frac{4}{3}$ (ii) $\frac{3}{5}$ (iii) $\frac{4}{5}$ (iv) $\frac{5}{3}$ (v) $\frac{5}{4}$

19. $\cot$ $\frac{3}{4}$ $\sec$

Given $C = \frac{3}{4}$, find C

- (i) $\frac{5}{4}$ (ii) $\frac{5}{3}$ (iii) $\frac{3}{5}$ (iv) $\frac{4}{5}$ (v) $\frac{4}{3}$
-

20. Given $\cot J = \frac{3}{4}$, find $\operatorname{cosec} J$

- (i) $\frac{5}{4}$ (ii) $\frac{5}{3}$ (iii) $\frac{4}{3}$ (iv) $\frac{3}{5}$ (v) $\frac{4}{5}$
-

21. Given $\sec N = \frac{13}{12}$, find $\sin N$

- (i) $\frac{12}{5}$ (ii) $\frac{5}{13}$ (iii) $\frac{12}{13}$ (iv) $\frac{5}{12}$ (v) $\frac{13}{5}$
-

22. Given $\sec B = \frac{17}{15}$, find $\cos B$

- (i) $\frac{15}{17}$ (ii) $\frac{8}{15}$ (iii) $\frac{17}{8}$ (iv) $\frac{15}{8}$ (v) $\frac{8}{17}$
-

23. Given $\sec H = \frac{5}{3}$, find $\tan H$

- (i) $\frac{3}{4}$ (ii) $\frac{4}{3}$ (iii) $\frac{4}{5}$ (iv) $\frac{3}{5}$ (v) $\frac{5}{4}$
-

24. Given $\sec P = \frac{13}{12}$, find $\cot P$

- (i) $\frac{13}{5}$ (ii) $\frac{5}{12}$ (iii) $\frac{12}{5}$ (iv) $\frac{12}{13}$ (v) $\frac{5}{13}$
-

25. Given $\sec F = \frac{5}{4}$, find $\operatorname{cosec} F$

- (i) $\frac{4}{3}$ (ii) $\frac{4}{5}$ (iii) $\frac{3}{5}$ (iv) $\frac{3}{4}$ (v) $\frac{5}{3}$
-

26. Given $\operatorname{cosec} C = \frac{13}{5}$, find $\sin C$

- (i) $\frac{5}{12}$ (ii) $\frac{13}{12}$ (iii) $\frac{5}{13}$ (iv) $\frac{12}{5}$ (v) $\frac{12}{13}$
-

27. Given $\operatorname{cosec} A = \frac{17}{8}$, find $\cos A$

- (i) $\frac{8}{15}$ (ii) $\frac{15}{17}$ (iii) $\frac{15}{8}$ (iv) $\frac{8}{17}$ (v) $\frac{17}{15}$
-

28. Given $\operatorname{cosec} F = \frac{5}{3}$, find $\tan F$

- (i) $\frac{4}{3}$ (ii) $\frac{5}{4}$ (iii) $\frac{3}{4}$ (iv) $\frac{4}{5}$ (v) $\frac{3}{5}$
-

29. Given $\operatorname{cosec} K = \frac{5}{4}$, find $\cot K$

- (i) $\frac{4}{3}$ (ii) $\frac{4}{5}$ (iii) $\frac{3}{5}$ (iv) $\frac{5}{3}$ (v) $\frac{3}{4}$

30. Given $\operatorname{cosec} G = \frac{5}{3}$, find $\sec G$

- (i) $\frac{3}{4}$ (ii) $\frac{4}{5}$ (iii) $\frac{3}{5}$ (iv) $\frac{4}{3}$ (v) $\frac{5}{4}$

31. Given $\sin E = \frac{1}{2}$, find $\cos E$

- (i) $\frac{1}{3} \sqrt{3}$ (ii) $\frac{2}{3} \sqrt{3}$ (iii) 2

- (iv) $\sqrt{3}$ (v) $\frac{1}{2} \sqrt{3}$

32. Given $\sin G = \frac{3}{4}$, find $\tan G$

- (i) $\frac{3}{7} \sqrt{7}$ (ii) $\frac{4}{3}$ (iii) $\frac{4}{7} \sqrt{7}$

- (iv) $\frac{1}{4} \sqrt{7}$ (v) $\frac{1}{3} \sqrt{7}$

33. Given $\sin H = \frac{1}{3}$, find $\cot H$

- (i) $\frac{2}{3} \sqrt{2}$ (ii) 3 (iii) $\frac{3}{4} \sqrt{2}$

- (iv) $\frac{1}{4} \sqrt{2}$ (v) $2 \sqrt{2}$

34. Given $\sin B = \frac{1}{3}$, find $\sec B$

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

- (iv) $\frac{3}{4} \sqrt{2}$ (v) 3

35. Given $\sin E = \frac{3}{8}$, find $\operatorname{cosec} E$

$$(i) \frac{8}{55} \sqrt{55} \quad (ii) \frac{5}{55} \sqrt{55} \quad (iii) \frac{1}{8} \sqrt{55}$$

$$(iv) \frac{1}{3} \sqrt{55} \quad (v) \frac{8}{3}$$

36. Given $\cos E = \frac{1}{6} \sqrt{35}$, find $\sin E$

$$(i) \sqrt{35} \quad (ii) \frac{6}{35} \sqrt{35} \quad (iii) \frac{1}{35} \sqrt{35}$$

$$(iv) \frac{1}{6} \quad (v) 6$$

37. Given $\cos H = \frac{2}{7} \sqrt{10}$, find $\tan H$

$$(i) \frac{3}{7} \quad (ii) \frac{3}{20} \sqrt{10} \quad (iii) \frac{2}{3} \sqrt{10}$$

$$(iv) \frac{7}{3} \quad (v) \frac{7}{20} \sqrt{10}$$

38. Given $\cos E = \frac{1}{2} \sqrt{3}$, find $\cot E$

$$(i) \frac{1}{2} \quad (ii) \sqrt{3} \quad (iii) \frac{1}{3} \sqrt{3}$$

$$(iv) \frac{2}{3} \sqrt{3} \quad (v) 2$$

39. Given $\cos P = \frac{1}{9} \sqrt{77}$, find $\sec P$

$$(i) \frac{9}{77} \sqrt{77} \quad (ii) \frac{2}{77} \sqrt{77} \quad (iii) \frac{9}{2}$$

$$(iv) \frac{1}{2} \sqrt{77} \quad (v) \frac{2}{9}$$

40. Given $\cos G = \frac{2}{3} \sqrt{2}$, find $\operatorname{cosec} G$

$$(i) \frac{1}{2} \quad (ii) \frac{1}{\sqrt{2}} \quad (iii) \frac{3}{\sqrt{2}}$$

$$\frac{4}{\sqrt{2}} \quad \frac{4}{\sqrt{2}}$$

$$(iv) \quad 2\sqrt{2} \quad (v) \quad 3$$

41. Given $\tan P = \frac{1}{3}\sqrt{3}$, find $\sin P$

$$(i) \quad \sqrt{3} \quad (ii) \quad \frac{2}{3}\sqrt{3} \quad (iii) \quad 2$$

$$(iv) \quad \frac{1}{2} \quad (v) \quad \frac{1}{2}\sqrt{3}$$

42. Given $\tan D = \frac{6}{13}\sqrt{13}$, find $\cos D$

$$(i) \quad \frac{7}{6} \quad (ii) \quad \frac{1}{7}\sqrt{13} \quad (iii) \quad \frac{7}{13}\sqrt{13}$$

$$(iv) \quad \frac{6}{7} \quad (v) \quad \frac{1}{6}\sqrt{13}$$

43. Given $\tan E = \frac{7}{8}\sqrt{2}$, find $\cot E$

$$(i) \quad \frac{9}{7} \quad (ii) \quad \frac{4}{7}\sqrt{2} \quad (iii) \quad \frac{9}{8}\sqrt{2}$$

$$(iv) \quad \frac{7}{9} \quad (v) \quad \frac{4}{9}\sqrt{2}$$

44. Given $\tan H = \frac{1}{12}\sqrt{6}$, find $\sec H$

$$(i) \quad \frac{1}{5} \quad (ii) \quad 5 \quad (iii) \quad 2\sqrt{6}$$

$$(iv) \quad \frac{5}{12}\sqrt{6} \quad (v) \quad \frac{2}{5}\sqrt{6}$$

45. Given $\tan M = \frac{1}{21}\sqrt{7}$, find $\operatorname{cosec} M$

$$(i) \quad 3\sqrt{7} \quad (ii) \quad 8 \quad (iii) \quad \frac{8}{21}\sqrt{7}$$

$$(iv) \quad \frac{1}{8} \quad (v) \quad \frac{3}{8}\sqrt{7}$$

46. Given $\cot B = 4\sqrt{3}$, find $\sin B$

$$(i) \quad 7 \quad (ii) \quad \frac{7}{12}\sqrt{3} \quad (iii) \quad \frac{4}{7}\sqrt{3}$$

$$(iv) \quad \frac{1}{7} \quad (v) \quad \frac{1}{12}\sqrt{3}$$

47. Given $\cot A = 3\sqrt{7}$, find $\cos A$

$$(i) \quad \frac{1}{8} \quad (ii) \quad \frac{3}{8}\sqrt{7} \quad (iii) \quad 8$$

$$(iv) \quad \frac{1}{21}\sqrt{7} \quad (v) \quad \frac{8}{21}\sqrt{7}$$

48. Given $\cot P = \frac{1}{3}\sqrt{7}$, find $\tan P$

$$(i) \quad \frac{1}{4}\sqrt{7} \quad (ii) \quad \frac{3}{7}\sqrt{7} \quad (iii) \quad \frac{4}{7}\sqrt{7}$$

$$(iv) \quad \frac{4}{3} \quad (v) \quad \frac{3}{4}$$

49. Given $\cot A = \frac{1}{2}\sqrt{21}$, find $\sec A$

$$(i) \quad \frac{2}{21}\sqrt{21} \quad (ii) \quad \frac{5}{2} \quad (iii) \quad \frac{1}{5}\sqrt{21}$$

$$(iv) \quad \frac{2}{5} \quad (v) \quad \frac{5}{21}\sqrt{21}$$

50. Given $\cot G = \frac{2}{3}\sqrt{10}$, find $\operatorname{cosec} G$

(i) $\frac{7}{\sqrt{10}}$ (ii) $\frac{7}{3}$ (iii) $\frac{7}{3}$

(iv) $\frac{3}{20} \sqrt{10}$ (v) $\frac{7}{20} \sqrt{10}$

51. Given $\sec N = \frac{8}{39} \sqrt{39}$, find $\sin N$

(i) $\frac{5}{39} \sqrt{39}$ (ii) $\frac{1}{8} \sqrt{39}$ (iii) $\frac{1}{5} \sqrt{39}$

(iv) $\frac{8}{5}$ (v) $\frac{5}{8}$

52. Given $\sec F = \frac{7}{15} \sqrt{5}$, find $\cos F$

(i) $\frac{2}{7}$ (ii) $\frac{7}{2}$ (iii) $\frac{2}{15} \sqrt{5}$

(iv) $\frac{3}{7} \sqrt{5}$ (v) $\frac{3}{2} \sqrt{5}$

53. Given $\sec J = \frac{4}{7} \sqrt{7}$, find $\tan J$

(i) $\frac{3}{7} \sqrt{7}$ (ii) $\frac{3}{4}$ (iii) $\frac{1}{4} \sqrt{7}$

(iv) $\frac{4}{3}$ (v) $\frac{1}{3} \sqrt{7}$

54. Given $\sec M = \frac{2}{3} \sqrt{3}$, find $\cot M$

(i) $\frac{1}{2}$ (ii) $\frac{1}{3} \sqrt{3}$ (iii) $\frac{1}{2} \sqrt{3}$

(iv) $\sqrt{3}$ (v) 2

55. Given $\sec M = \frac{7}{20} \sqrt{10}$, find $\operatorname{cosec} M$

(i) $\frac{2}{7} \sqrt{10}$ (ii) $\frac{7}{2}$ (iii) $\frac{2}{7} \sqrt{10}$

$$\frac{1}{\sqrt{10}} \quad \frac{1}{\sqrt{10}}$$

(iv) $\frac{3}{20} \sqrt{10}$ (v) $\frac{3}{7}$

56. Given $\operatorname{cosec} B = \frac{5}{3}$, find $\sin B$

(i) $\frac{5}{4}$ (ii) $\frac{4}{3}$ (iii) $\frac{3}{4}$

(iv) $\frac{4}{5}$ (v) $\frac{3}{5}$

57. Given $\operatorname{cosec} N = \frac{3}{2}$, find $\cos N$

(i) $\frac{2}{3}$ (ii) $\frac{1}{3} \sqrt{5}$ (iii) $\frac{1}{2} \sqrt{5}$

(iv) $\frac{3}{5} \sqrt{5}$ (v) $\frac{2}{5} \sqrt{5}$

58. Given $\operatorname{cosec} G = 9$, find $\tan G$

(i) $\frac{1}{20} \sqrt{5}$ (ii) $4 \sqrt{5}$ (iii) $\frac{9}{20} \sqrt{5}$

(iv) $\frac{4}{9} \sqrt{5}$ (v) $\frac{1}{9}$

59. Given $\operatorname{cosec} N = 2$, find $\cot N$

(i) $\sqrt{3}$ (ii) $\frac{1}{2} \sqrt{3}$ (iii) $\frac{1}{3} \sqrt{3}$

(iv) $\frac{2}{3} \sqrt{3}$ (v) $\frac{1}{2}$

60. Given $\operatorname{cosec} K = 3$, find $\sec K$

(i) $2 \sqrt{2}$ (ii) $\frac{3}{4} \sqrt{2}$ (iii) $\frac{1}{3}$

(iv) $\frac{2}{3} \sqrt{2}$ (v) $\frac{1}{4} \sqrt{2}$

61. $\cot \frac{1}{\sin}$ $\sin$ $\sin$

If $\theta = \frac{\pi}{3}$, find $(1 + \cos \theta)(1 - \cos \theta)$

$$\frac{(1 - \cos \theta)(1 + \cos \theta)}{(1 - \cos \theta)(1 + \cos \theta)}$$

- (i) $(-\frac{1}{9})$ (ii) $\frac{1}{3}$ (iii) $\frac{1}{7}$ (iv) $\frac{1}{9}$ (v) $\frac{1}{11}$
-

62. If $\tan \theta = \frac{3}{5}$, find $\frac{(1 + \cos \theta)(1 - \cos \theta)}{(1 + \sin \theta)(1 - \sin \theta)}$

- (i) $\frac{9}{23}$ (ii) $\frac{1}{3}$ (iii) $\frac{9}{25}$ (iv) $\frac{7}{25}$ (v) $\frac{11}{25}$
-

63. Given that $5 \sin \theta = 3$, find $\cos \theta$

- (i) $\frac{5}{4}$ (ii) $\frac{5}{3}$ (iii) $\frac{3}{4}$ (iv) $\frac{4}{5}$ (v) $\frac{4}{3}$
-

64. Given that $13 \sin \theta = 5$, find $\tan \theta$

- (i) $\frac{5}{12}$ (ii) $\frac{12}{5}$ (iii) $\frac{13}{5}$ (iv) $\frac{13}{12}$ (v) $\frac{12}{13}$
-

65. Given that $17 \sin \theta = 8$, find $\cot \theta$

- (i) $\frac{8}{15}$ (ii) $\frac{17}{8}$ (iii) $\frac{17}{15}$ (iv) $\frac{15}{8}$ (v) $\frac{15}{17}$
-

66. Given that $13 \sin \theta = 5$, find $\sec \theta$

- (i) $\frac{13}{5}$ (ii) $\frac{5}{12}$ (iii) $\frac{13}{12}$ (iv) $\frac{12}{13}$ (v) $\frac{12}{5}$
-

67. Given that $13 \sin \theta = 5$, find $\operatorname{cosec} \theta$

- (i) $\frac{13}{5}$ (ii) $\frac{12}{13}$ (iii) $\frac{5}{12}$ (iv) $\frac{12}{5}$ (v) $\frac{13}{12}$
-

68. Given that $5 \cos \theta = 3$, find $\sin \theta$

- (i) $\frac{5}{4}$ (ii) $\frac{5}{3}$ (iii) $\frac{4}{5}$ (iv) $\frac{4}{3}$ (v) $\frac{3}{4}$
-

69. Given that $13 \cos \theta = 12$, find $\tan \theta$

- (i) $\frac{13}{5}$ (ii) $\frac{5}{13}$ (iii) $\frac{12}{5}$ (iv) $\frac{13}{12}$ (v) $\frac{5}{12}$
-

cos

cot

70. Given that $5 \theta = 3$, find θ

- (i) $\frac{5}{3}$ (ii) $\frac{5}{4}$ (iii) $\frac{4}{3}$ (iv) $\frac{4}{5}$ (v) $\frac{3}{4}$
-

71. Given that $13 \cos \theta = 12$, find $\sec \theta$

- (i) $\frac{12}{5}$ (ii) $\frac{13}{12}$ (iii) $\frac{13}{5}$ (iv) $\frac{5}{13}$ (v) $\frac{5}{12}$
-

72. Given that $13 \cos \theta = 12$, find $\operatorname{cosec} \theta$

- (i) $\frac{13}{5}$ (ii) $\frac{5}{13}$ (iii) $\frac{5}{12}$ (iv) $\frac{12}{5}$ (v) $\frac{13}{12}$
-

73. Given that $12 \tan \theta = 5$, find $\sin \theta$

- (i) $\frac{5}{13}$ (ii) $\frac{13}{12}$ (iii) $\frac{12}{13}$ (iv) $\frac{13}{5}$ (v) $\frac{12}{5}$
-

74. Given that $15 \tan \theta = 8$, find $\cos \theta$

- (i) $\frac{15}{17}$ (ii) $\frac{17}{15}$ (iii) $\frac{17}{8}$ (iv) $\frac{8}{17}$ (v) $\frac{15}{8}$
-

75. Given that $4 \tan \theta = 3$, find $\cot \theta$

- (i) $\frac{4}{5}$ (ii) $\frac{4}{3}$ (iii) $\frac{5}{3}$ (iv) $\frac{5}{4}$ (v) $\frac{3}{5}$
-

76. Given that $15 \tan \theta = 8$, find $\sec \theta$

- (i) $\frac{17}{15}$ (ii) $\frac{15}{8}$ (iii) $\frac{15}{17}$ (iv) $\frac{17}{8}$ (v) $\frac{8}{17}$
-

77. Given that $12 \tan \theta = 5$, find $\operatorname{cosec} \theta$

- (i) $\frac{13}{12}$ (ii) $\frac{5}{13}$ (iii) $\frac{12}{5}$ (iv) $\frac{12}{13}$ (v) $\frac{13}{5}$
-

78. Given that $8 \cot \theta = 15$, find $\sin \theta$

- (i) $\frac{17}{15}$ (ii) $\frac{17}{8}$ (iii) $\frac{15}{17}$ (iv) $\frac{8}{15}$ (v) $\frac{8}{17}$
-

79. Given that $3 \cot \theta = 4$, find $\cos \theta$

- (i) $\frac{4}{5}$ (ii) $\frac{3}{5}$ (iii) $\frac{5}{4}$ (iv) $\frac{3}{4}$ (v) $\frac{5}{3}$
-

5

4

3

5

4

80. Given that $5 \cot \theta = 12$, find $\tan \theta$

- (i) $\frac{5}{12}$ (ii) $\frac{13}{5}$ (iii) $\frac{13}{12}$ (iv) $\frac{12}{13}$ (v) $\frac{5}{13}$
-

81. Given that $3 \cot \theta = 4$, find $\sec \theta$

- (i) $\frac{5}{4}$ (ii) $\frac{3}{5}$ (iii) $\frac{3}{4}$ (iv) $\frac{5}{3}$ (v) $\frac{4}{5}$
-

82. Given that $5 \cot \theta = 12$, find $\operatorname{cosec} \theta$

- (i) $\frac{12}{13}$ (ii) $\frac{5}{13}$ (iii) $\frac{13}{12}$ (iv) $\frac{13}{5}$ (v) $\frac{5}{12}$
-

83. Given that $15 \sec \theta = 17$, find $\sin \theta$

- (i) $\frac{8}{17}$ (ii) $\frac{17}{8}$ (iii) $\frac{8}{15}$ (iv) $\frac{15}{8}$ (v) $\frac{15}{17}$
-

84. Given that $15 \sec \theta = 17$, find $\cos \theta$

- (i) $\frac{8}{17}$ (ii) $\frac{15}{17}$ (iii) $\frac{15}{8}$ (iv) $\frac{8}{15}$ (v) $\frac{17}{8}$
-

85. Given that $15 \sec \theta = 17$, find $\tan \theta$

- (i) $\frac{15}{8}$ (ii) $\frac{8}{15}$ (iii) $\frac{17}{8}$ (iv) $\frac{8}{17}$ (v) $\frac{15}{17}$
-

86. Given that $15 \sec \theta = 17$, find $\cot \theta$

- (i) $\frac{8}{15}$ (ii) $\frac{15}{17}$ (iii) $\frac{8}{17}$ (iv) $\frac{15}{8}$ (v) $\frac{17}{8}$
-

87. Given that $12 \sec \theta = 13$, find $\operatorname{cosec} \theta$

- (i) $\frac{13}{5}$ (ii) $\frac{5}{13}$ (iii) $\frac{12}{13}$ (iv) $\frac{12}{5}$ (v) $\frac{5}{12}$
-

88. Given that $3 \operatorname{cosec} \theta = 5$, find $\sin \theta$

- (i) $\frac{5}{4}$ (ii) $\frac{4}{5}$ (iii) $\frac{4}{3}$ (iv) $\frac{3}{5}$ (v) $\frac{3}{4}$
-

89. Given that $3 \operatorname{cosec} \theta = 5$, find $\cos \theta$

(i) $\frac{5}{4}$ (ii) $\frac{3}{5}$ (iii) $\frac{4}{3}$ (iv) $\frac{3}{4}$ (v) $\frac{4}{5}$

90. Given that $3 \operatorname{cosec} \theta = 5$, find $\tan \theta$

(i) $\frac{3}{5}$ (ii) $\frac{4}{5}$ (iii) $\frac{3}{4}$ (iv) $\frac{4}{3}$ (v) $\frac{5}{4}$

91. Given that $3 \operatorname{cosec} \theta = 5$, find $\cot \theta$

(i) $\frac{3}{5}$ (ii) $\frac{5}{4}$ (iii) $\frac{3}{4}$ (iv) $\frac{4}{3}$ (v) $\frac{4}{5}$

92. Given that $3 \operatorname{cosec} \theta = 5$, find $\sec \theta$

(i) $\frac{3}{5}$ (ii) $\frac{3}{4}$ (iii) $\frac{4}{3}$ (iv) $\frac{4}{5}$ (v) $\frac{5}{4}$

Assignment Key

- 1) (iv)
- 2) (iii)
- 3) (v)
- 4) (i)
- 5) (iii)
- 6) (iv)
- 7) (iii)
- 8) (i)
- 9) (iv)
- 10) (ii)
- 11) (i)
- 12) (v)
- 13) (v)
- 14) (iv)
- 15) (v)
- 16) (iii)
- 17) (v)
- 18) (i)
- 19) (ii)
- 20) (i)
- 21) (ii)
- 22) (i)
- 23) (ii)
- 24) (iii)
- 25) (v)
- 26) (iii)
- 27) (ii)
- 28) (iii)
- 29) (v)
- 30) (v)
- 31) (v)
- 32) (i)
- 33) (v)
- 34) (iv)
- 35) (v)
- 36) (iv)
- 37) (ii)
- 38) (ii)
- 39) (i)
- 40) (v)
- 41) (iv)
- 42) (ii)
- 43) (ii)
- 44) (iv)
- 45) (ii)
- 46) (iv)
- 47) (ii)
- 48) (ii)
- 49) (v)
- 50) (iii)
- 51) (v)
- 52) (iv)
- 53) (i)
- 54) (iv)
- 55) (ii)

- 56) (v)
- 57) (ii)
- 58) (i)
- 59) (i)
- 60) (ii)
- 61) (iv)
- 62) (iii)
- 63) (iv)
- 64) (i)
- 65) (iv)
- 66) (iii)
- 67) (i)
- 68) (iii)
- 69) (v)
- 70) (v)
- 71) (ii)
- 72) (i)
- 73) (i)
- 74) (i)
- 75) (ii)
- 76) (i)
- 77) (v)
- 78) (v)
- 79) (i)
- 80) (i)
- 81) (i)
- 82) (iv)
- 83) (i)
- 84) (ii)
- 85) (ii)
- 86) (iv)
- 87) (i)
- 88) (iv)
- 89) (v)
- 90) (iii)
- 91) (iv)
- 92) (v)