

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

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

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

2. Given $\sin A = \frac{8}{17}$, find $\tan A$

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

3. Given $\sin D = \frac{8}{17}$, find $\cot D$

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

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

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

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

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

6. Given $\cos E = \frac{15}{17}$, find $\sin E$

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

7. Given $\cos H = \frac{4}{5}$, find $\tan H$

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

8. Given $\cos B = \frac{15}{17}$, find $\cot B$

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

9. Given $\cos A = \frac{15}{17}$, find $\sec A$

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

10. Given $\cos B = \frac{4}{5}$, find $\operatorname{cosec} B$

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

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

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

12. Given $\tan N = \frac{8}{15}$, find $\cos N$

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

13. Given $\tan C = \frac{5}{12}$, find $\cot C$

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

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

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

15. Given $\tan G = \frac{8}{15}$, find $\operatorname{cosec} G$

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

16. Given $\cot G = \frac{15}{8}$, find $\sin G$

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

17. Given $\cot H = \frac{12}{5}$, find $\cos H$

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

18. Given $\cot A = \frac{12}{5}$, find $\tan A$

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

19. $\cot 15^\circ = \sec$

Given $G = \frac{8}{15}$, find $\csc G$

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

20. Given $\cot G = \frac{15}{8}$, find $\operatorname{cosec} G$

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

21. Given $\sec J = \frac{17}{15}$, find $\sin J$

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

22. Given $\sec D = \frac{5}{3}$, find $\cos D$

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

23. Given $\sec P = \frac{5}{4}$, find $\tan P$

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

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

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

25. Given $\sec E = \frac{5}{3}$, find $\operatorname{cosec} E$

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

26. Given $\operatorname{cosec} A = \frac{17}{8}$, find $\sin A$

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

27. Given $\operatorname{cosec} H = \frac{5}{3}$, find $\cos H$

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

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

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

29. Given $\operatorname{cosec} G = \frac{5}{3}$, find $\cot G$

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

30. Given $\operatorname{cosec} E = \frac{5}{4}$, find $\sec E$

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

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

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

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

32. Given $\sin G = \frac{6}{7}$, find $\tan G$

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

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

33. Given $\sin A = \frac{1}{2}$, find $\cot A$

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

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

34. Given $\sin H = \frac{1}{2}$, find $\sec H$

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

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

35. Given $\sin G = \frac{2}{7}$, find $\operatorname{cosec} G$

(i) $\frac{1}{15} \sqrt{5}$ (ii) $\frac{5}{7} \sqrt{5}$ (iii) $\frac{4}{15} \sqrt{5}$

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

36. Given $\cos E = \frac{4}{9} \sqrt{5}$, find $\sin E$

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

(iv) $4 \sqrt{5}$ (v) $\frac{9}{20} \sqrt{5}$

37. Given $\cos G = \frac{1}{4} \sqrt{15}$, find $\tan G$

(i) 4 (ii) $\sqrt{15}$ (iii) $\frac{4}{15} \sqrt{15}$

(iv) $\frac{1}{15} \sqrt{15}$ (v) $\frac{1}{4}$

38. Given $\cos F = \frac{1}{6} \sqrt{35}$, find $\cot F$

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

(iv) $\frac{1}{6}$ (v) $\frac{6}{35} \sqrt{35}$

39. Given $\cos D = \frac{1}{4} \sqrt{7}$, find $\sec D$

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

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

40. Given $\cos H = \frac{1}{4} \sqrt{7}$, find $\operatorname{cosec} H$

(i) $\frac{3}{4}$ (ii) $\frac{1}{2} \sqrt{7}$ (iii) $\frac{4}{3}$

$$4 \quad 5 \quad / \quad 5$$

$$\sqrt{\quad}$$

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

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

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

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

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

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

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

43. Given $\tan M = \frac{1}{3} \sqrt{3}$, find $\cot M$

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

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

44. Given $\tan D = \frac{1}{12} \sqrt{3}$, find $\sec D$

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

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

45. Given $\tan G = \frac{3}{55} \sqrt{55}$, find $\operatorname{cosec} G$

(i) $\frac{1}{3} \sqrt{55}$ (ii) $\frac{3}{8}$ (iii) $\frac{1}{8} \sqrt{55}$

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

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

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

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

47. Given $\cot J = 2\sqrt{2}$, find $\cos J$

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

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

48. Given $\cot A = \sqrt{35}$, find $\tan A$

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

(iv) 6 (v) $\frac{1}{35} \sqrt{35}$

49. Given $\cot M = \frac{1}{4} \sqrt{33}$, find $\sec M$

(i) $\frac{7}{33} \sqrt{33}$ (ii) $\frac{1}{7} \sqrt{33}$ (iii) $\frac{4}{7}$

(iv) $\frac{7}{4}$ (v) $\frac{4}{33} \sqrt{33}$

50. Given $\cot N = \frac{4}{3}$, find $\operatorname{cosec} N$

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

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

51. Given $\sec P = \frac{5}{21} \sqrt{21}$, find $\sin P$

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

(iv) $\frac{5}{2}$ (v) $\frac{1}{2} \sqrt{21}$

52. Given $\sec B = \frac{5}{21} \sqrt{21}$, find $\cos B$

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

(iv) $\frac{2}{21} \sqrt{21}$ (v) $\frac{1}{2} \sqrt{21}$

53. Given $\sec M = \frac{6}{35} \sqrt{35}$, find $\tan M$

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

(iv) $\frac{1}{35} \sqrt{35}$ (v) $\sqrt{35}$

54. Given $\sec C = \frac{6}{11} \sqrt{11}$, find $\cot C$

(i) $\frac{5}{6}$ (ii) $\frac{1}{6} \sqrt{11}$ (iii) $\frac{1}{5} \sqrt{11}$

(iv) $\frac{5}{11} \sqrt{11}$ (v) $\frac{6}{5}$

55. Given $\sec F = \frac{3}{4} \sqrt{2}$, find $\operatorname{cosec} F$

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

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

56. Given $\operatorname{cosec} G = 3$, find $\sin G$

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

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

57. Given $\operatorname{cosec} E = \frac{9}{5}$, find $\cos E$

$$(i) \frac{5}{9} \quad (ii) \frac{5}{28} \sqrt{14} \quad (iii) \frac{2}{5} \sqrt{14}$$

$$(iv) \frac{9}{28} \sqrt{14} \quad (v) \frac{2}{9} \sqrt{14}$$

58. Given $\operatorname{cosec} B = 4$, find $\tan B$

$$(i) \frac{1}{15} \sqrt{15} \quad (ii) \frac{1}{4} \quad (iii) \frac{1}{4} \sqrt{15}$$

$$(iv) \frac{4}{15} \sqrt{15} \quad (v) \sqrt{15}$$

59. Given $\operatorname{cosec} K = \frac{5}{3}$, find $\cot K$

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

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

60. Given $\operatorname{cosec} K = \frac{8}{7}$, find $\sec K$

$$(i) \frac{1}{8} \sqrt{15} \quad (ii) \frac{7}{8} \quad (iii) \frac{8}{15} \sqrt{15}$$

$$(iv) \frac{7}{15} \sqrt{15} \quad (v) \frac{1}{7} \sqrt{15}$$

61. Given that $5 \sin \theta = 4$, find $\cos \theta$

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

62. Given that $17 \sin \theta = 8$, find $\tan \theta$

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

63. Given that $13 \sin \theta = 5$, find $\cot \theta$

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

64. Given that $17 \sin \theta = 8$, find $\sec \theta$

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

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

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

66. Given that $17 \cos \theta = 15$, find $\sin \theta$

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

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

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

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

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

69. Given that $5 \cos \theta = 3$, find $\sec \theta$

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

70. Given that $5 \cos \theta = 4$, find $\operatorname{cosec} \theta$

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

71. Given that $15 \csc \theta = 8$, find θ

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

72. Given that $3 \tan \theta = 4$, find $\cos \theta$

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

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

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

74. Given that $12 \tan \theta = 5$, find $\sec \theta$

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

75. Given that $4 \tan \theta = 3$, find $\operatorname{cosec} \theta$

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

76. Given that $3 \cot \theta = 4$, find $\sin \theta$

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

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

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

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

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

79. Given that $8 \cot \theta = 15$, find $\sec \theta$

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

80. Given that $4 \cot \theta = 3$, find $\operatorname{cosec} \theta$

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

 $\frac{5}{5}$ $\frac{5}{5}$ $\frac{4}{4}$ $\frac{3}{3}$ $\frac{3}{3}$

81. Given that $4 \sec \theta = 5$, find $\sin \theta$

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

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

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

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

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

84. Given that $4 \sec \theta = 5$, find $\cot \theta$

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

85. Given that $4 \sec \theta = 5$, find $\operatorname{cosec} \theta$

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

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

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

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

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

88. Given that $5 \operatorname{cosec} \theta = 13$, find $\tan \theta$

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

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

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

90. Given that $5 \operatorname{cosec} \theta = 13$, find $\sec \theta$

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

Assignment Key

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

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