EduSahara™ Assignment

Name : Finding a Trigonometric Ratio given other Ratio

Chapter : Trigonometrical Identities

Grade : ICSE Grade X

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

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

2. Given $\sin N = \frac{3}{5}$, find $\tan N$

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

3. Given $\sin N = \frac{5}{13}$, find $\cot N$

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

4. Given $\sin E = \frac{5}{13}$, find $\sec E$

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

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

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

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

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

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

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

8. Given $\cos D = \frac{4}{5}$, find $\cot D$

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

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

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

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

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

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

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

12. Given $\tan F = \frac{5}{12}$, find $\cos F$

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

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

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

14. Given $\tan G = \frac{5}{12}$, find $\sec G$

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

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

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

16. Given $\cot N = \frac{12}{5}$, find $\sin N$

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

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

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

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

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

19. Given $\cot C = \frac{4}{3}$, find $\sec C$

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

20. Given $\cot E = \frac{12}{5}$, find $\operatorname{cosec} E$

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

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

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

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

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

23. Given $\sec K = \frac{17}{15}$, find $\tan K$

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

24. Given $\sec H = \frac{17}{15}$, find $\cot H$

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

25. Given $\sec G = \frac{13}{12}$, find $\operatorname{cosec} G$

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

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

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

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

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

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28. Given $\operatorname{cosec} A = \frac{17}{8}$, find $\tan A$

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

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29. Given $\operatorname{cosec} A = \frac{17}{8}$, find $\cot A$

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

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

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

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31. Given $\sin M = \frac{2}{7}$, find $\cos M$

(i) $\frac{7}{2}$ (ii) $\frac{3}{2}\sqrt{5}$ (iii) $\frac{7}{15}\sqrt{5}$ (iv) $\frac{2}{15}\sqrt{5}$ (v) $\frac{3}{7}\sqrt{5}$

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32. Given $\sin E = \frac{1}{5}$, find $\tan E$

(i) $2\sqrt{6}$ (ii) $\frac{5}{12}\sqrt{6}$ (iii) 5 (iv) $\frac{2}{5}\sqrt{6}$ (v) $\frac{1}{12}\sqrt{6}$

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33. Given $\sin C = \frac{5}{9}$, find $\cot C$

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

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34. Given $\sin P = \frac{1}{4}$, find $\sec P$

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

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35. Given $\sin F = \frac{4}{7}$, find $\operatorname{cosec} F$

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

36. Given $\cos G = \frac{3}{7}\sqrt{5}$, find $\sin G$

(i) $\frac{7}{15}\sqrt{5}$ (ii) $\frac{3}{2}\sqrt{5}$ (iii) $\frac{2}{15}\sqrt{5}$ (iv) $\frac{2}{7}$ (v) $\frac{7}{2}$

37. Given $\cos F = \frac{1}{7}\sqrt{33}$, find $\tan F$

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

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

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

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

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

40. Given $\cos D = \frac{1}{2}\sqrt{3}$, find $\operatorname{cosec} D$

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

41. Given $\tan G = \frac{3}{7}\sqrt{7}$, find $\sin G$

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

42. Given $\tan M = \frac{5}{39}\sqrt{39}$, find $\cos M$

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

43. Given $\tan F = \frac{5}{28}\sqrt{14}$, find $\cot F$

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

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

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

45. Given $\tan P = \frac{3}{7}\sqrt{7}$, find $\operatorname{cosec} P$

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

46. Given $\cot J = \frac{2}{3}\sqrt{10}$, find $\sin J$

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

47. Given $\cot J = \frac{1}{2}\sqrt{21}$, find $\cos J$

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

48. Given $\cot H = \frac{1}{2}\sqrt{21}$, find $\tan H$

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

49. Given $\cot P = \frac{4}{3}$, find $\sec P$

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

50. Given $\cot F = 4\sqrt{3}$, find $\operatorname{cosec} F$

(i) 7 (ii) $\frac{7}{12}\sqrt{3}$ (iii) $\frac{1}{7}$ (iv) $\frac{1}{12}\sqrt{3}$ (v) $\frac{4}{7}\sqrt{3}$

51. Given $\sec C = \frac{3}{5}\sqrt{5}$, find $\sin C$

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

52. Given $\sec D = \frac{2}{3}\sqrt{3}$, find $\cos D$

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

53. Given $\sec H = \frac{2}{3}\sqrt{3}$, find $\tan H$

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

54. Given $\sec B = \frac{3}{4}\sqrt{2}$, find $\cot B$

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

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55. Given $\sec P = \frac{3}{5}\sqrt{5}$, find $\operatorname{cosec} P$

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

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56. Given $\operatorname{cosec} M = \frac{7}{6}$, find $\sin M$

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

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

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

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58. Given $\operatorname{cosec} C = \frac{5}{2}$, find $\tan C$

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

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

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

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60. Given $\operatorname{cosec} G = 6$, find $\sec G$

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

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

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

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

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

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

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

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

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

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

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

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

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

67. Given that $17\cos\theta = 15$, find $\tan\theta$

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

68. Given that $5\cos\theta = 4$, find $\cot\theta$

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

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

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

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

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

71. Given that $15\tan\theta = 8$, find $\sin\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

79. Given that $5\cot\theta = 12$, find $\sec\theta$

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

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

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

81. Given that $12\sec\theta = 13$, find $\sin\theta$

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

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

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

83. Given that $12\sec\theta = 13$, find $\tan\theta$

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

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

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

85. Given that $15\sec\theta = 17$, find $\operatorname{cosec}\theta$

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

86. Given that $4\operatorname{cosec}\theta = 5$, find $\sin\theta$

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

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

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

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

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

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

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

90. Given that $8\operatorname{cosec}\theta = 17$, find $\sec\theta$

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

Assignment Key

1) (i)	2) (ii)	3) (ii)	4) (i)	5) (iv)	6) (i)
7) (ii)	8) (ii)	9) (v)	10) (i)	11) (iii)	12) (v)
13) (ii)	14) (iii)	15) (iii)	16) (iv)	17) (iii)	18) (ii)
19) (iii)	20) (ii)	21) (v)	22) (i)	23) (iii)	24) (iii)
25) (v)	26) (iii)	27) (i)	28) (ii)	29) (i)	30) (ii)
31) (v)	32) (v)	33) (iv)	34) (i)	35) (iii)	36) (iv)
37) (iii)	38) (ii)	39) (iv)	40) (i)	41) (i)	42) (v)
43) (v)	44) (iii)	45) (iii)	46) (iii)	47) (v)	48) (iv)
49) (iv)	50) (i)	51) (i)	52) (iv)	53) (v)	54) (iii)
55) (iv)	56) (v)	57) (iii)	58) (iv)	59) (i)	60) (i)
61) (i)	62) (iii)	63) (iii)	64) (i)	65) (v)	66) (i)
67) (i)	68) (iv)	69) (v)	70) (iv)	71) (iii)	72) (i)
73) (v)	74) (i)	75) (iv)	76) (v)	77) (iii)	78) (ii)
79) (v)	80) (iii)	81) (v)	82) (ii)	83) (iv)	84) (iii)
85) (iii)	86) (iii)	87) (iii)	88) (v)	89) (iii)	90) (iii)