EduSahara™ Assignment

Name : Finding a Trigonometric Ratio given other Ratio

Chapter : Trigonometrical Ratios

Grade : ICSE Grade IX

1. Given $\sin M = \frac{3}{5}$, find $\cos M$

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

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

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

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

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

4. Given $\sin K = \frac{3}{5}$, find $\sec K$

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

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

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

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

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

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

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

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

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

9. Given $\cos C = \frac{12}{13}$, find $\sec C$

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

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

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

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

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

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

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

13. Given $\tan H = \frac{3}{4}$, find $\cot H$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

22. Given $\sec M = \frac{5}{4}$, find $\cos M$

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

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

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

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

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

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

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

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

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

27. Given $\operatorname{cosec} M = \frac{13}{5}$, find $\cos M$

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

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

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

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

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

30. Given $\operatorname{cosec} N = \frac{17}{8}$, find $\sec N$

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

31. Given $\sin D = \frac{7}{9}$, find $\cos D$

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

32. Given $\sin G = \frac{4}{5}$, find $\tan G$

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

33. Given $\sin H = \frac{1}{4}$, find $\cot H$

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

34. Given $\sin B = \frac{2}{9}$, find $\sec B$

(i) $\frac{9}{2}$ (ii) $\frac{1}{2}\sqrt{77}$ (iii) $\frac{1}{9}\sqrt{77}$ (iv) $\frac{9}{77}\sqrt{77}$ (v) $\frac{2}{77}\sqrt{77}$

35. Given $\sin D = \frac{1}{2}$, find $\operatorname{cosec} D$

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

36. Given $\cos K = \frac{1}{3}\sqrt{5}$, find $\sin K$

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

37. Given $\cos M = \frac{1}{6}\sqrt{11}$, find $\tan M$

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

38. Given $\cos K = \frac{1}{8}\sqrt{15}$, find $\cot K$

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

39. Given $\cos H = \frac{1}{7}\sqrt{13}$, find $\sec H$

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

40. Given $\cos C = \frac{1}{4}\sqrt{15}$, find $\operatorname{cosec} C$

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

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

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

42. Given $\tan C = \frac{1}{4}\sqrt{2}$, find $\cos C$

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

43. Given $\tan G = \frac{4}{33}\sqrt{33}$, find $\cot G$

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

44. Given $\tan G = \frac{1}{15}\sqrt{15}$, find $\sec G$

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

45. Given $\tan E = \frac{1}{3}\sqrt{3}$, find $\operatorname{cosec} E$

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

46. Given $\cot P = 2\sqrt{6}$, find $\sin P$

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

47. Given $\cot F = \frac{1}{3}\sqrt{7}$, find $\cos F$

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

48. Given $\cot D = \sqrt{15}$, find $\tan D$

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

49. Given $\cot K = \frac{2}{5}\sqrt{6}$, find $\sec K$

(i) $\frac{7}{5}$ (ii) $\frac{5}{7}$ (iii) $\frac{7}{12}\sqrt{6}$ (iv) $\frac{2}{7}\sqrt{6}$ (v) $\frac{5}{12}\sqrt{6}$

50. Given $\cot M = \frac{1}{2}\sqrt{5}$, find $\operatorname{cosec} M$

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

51. Given $\sec A = \frac{7}{12}\sqrt{6}$, find $\sin A$

(i) $\frac{2}{5}\sqrt{6}$ (ii) $\frac{7}{5}$ (iii) $\frac{5}{7}$ (iv) $\frac{5}{12}\sqrt{6}$ (v) $\frac{2}{7}\sqrt{6}$

52. Given $\sec N = \frac{4}{15}\sqrt{15}$, find $\cos N$

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

53. Given $\sec J = \frac{4}{15}\sqrt{15}$, find $\tan J$

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

54. Given $\sec N = \frac{4}{15}\sqrt{15}$, find $\cot N$

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

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

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

56. Given $\operatorname{cosec} H = 2$, find $\sin H$

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

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

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

58. Given $\operatorname{cosec} F = 2$, find $\tan F$

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

59. Given $\operatorname{cosec} P = \frac{9}{5}$, find $\cot P$

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

60. Given $\operatorname{cosec} H = \frac{8}{5}$, find $\sec H$

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

61. If $\cot\theta = \frac{1}{4}$, find $\frac{(1+\sin\theta)(1-\sin\theta)}{(1-\cos\theta)(1+\cos\theta)}$

(i) $(\frac{-1}{16})$ (ii) $\frac{1}{18}$ (iii) $\frac{3}{16}$ (iv) $\frac{1}{16}$ (v) $\frac{1}{14}$

62. If $\tan\theta = \frac{1}{2}$, find $\frac{(1+\cos\theta)(1-\cos\theta)}{(1+\sin\theta)(1-\sin\theta)}$

(i) $(\frac{-1}{4})$ (ii) $\frac{1}{6}$ (iii) $\frac{1}{4}$ (iv) $\frac{3}{4}$ (v) $\frac{1}{2}$

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

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

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

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

65. Given that $5\sin\theta = 4$, find $\cot\theta$

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

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

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

67. Given that $17\sin\theta = 8$, find $\operatorname{cosec}\theta$

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

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

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

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

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

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

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

71. Given that $5\cos\theta = 4$, find $\sec\theta$

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

72. Given that $17\cos\theta = 15$, find $\operatorname{cosec}\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

91. Given that $4\operatorname{cosec}\theta = 5$, find $\cot\theta$

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

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

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

Assignment Key

1) (iii)	2) (ii)	3) (i)	4) (i)	5) (iv)	6) (iv)
7) (iii)	8) (i)	9) (i)	10) (i)	11) (i)	12) (ii)
13) (iii)	14) (iv)	15) (v)	16) (v)	17) (iii)	18) (iv)
19) (iv)	20) (ii)	21) (ii)	22) (iv)	23) (iii)	24) (i)
25) (i)	26) (i)	27) (ii)	28) (v)	29) (iii)	30) (ii)
31) (iii)	32) (iii)	33) (i)	34) (iv)	35) (i)	36) (v)
37) (ii)	38) (ii)	39) (iii)	40) (iv)	41) (v)	42) (iii)
43) (ii)	44) (ii)	45) (iv)	46) (iv)	47) (iii)	48) (iv)
49) (iii)	50) (iv)	51) (iii)	52) (iv)	53) (v)	54) (iv)
55) (iv)	56) (i)	57) (v)	58) (iii)	59) (iv)	60) (iii)
61) (iv)	62) (iii)	63) (ii)	64) (v)	65) (ii)	66) (ii)
67) (iii)	68) (v)	69) (ii)	70) (iv)	71) (v)	72) (iv)
73) (i)	74) (iv)	75) (i)	76) (iv)	77) (i)	78) (iii)
79) (iv)	80) (ii)	81) (iv)	82) (iii)	83) (i)	84) (v)
85) (iii)	86) (v)	87) (iii)	88) (v)	89) (v)	90) (iv)
91) (v)	92) (iii)				