EduSahara™ Assignment

Name : Finding a Trigonometric Ratio given other Ratio

Chapter : Trigonometrical Ratios

Grade : ICSE Grade IX

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

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

2. Given $\sin P = \frac{5}{13}$, find $\tan P$

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

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

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

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

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

5. Given $\sin H = \frac{8}{17}$, find $\operatorname{cosec} H$

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

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

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

7. Given $\cos E = \frac{15}{17}$, find $\tan E$

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

8. Given $\cos K = \frac{12}{13}$, find $\cot K$

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

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

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

10. Given $\cos G = \frac{12}{13}$, find $\operatorname{cosec} G$

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

11. Given $\tan A = \frac{8}{15}$, find $\sin A$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

19. Given $\cot K = \frac{12}{5}$, find $\sec K$

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

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

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

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

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

22. Given $\sec A = \frac{13}{12}$, find $\cos A$

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

23. Given $\sec B = \frac{13}{12}$, find $\tan B$

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

24. Given $\sec M = \frac{5}{3}$, find $\cot M$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

32. Given $\sin H = \frac{1}{7}$, find $\tan H$

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

33. Given $\sin M = \frac{1}{9}$, find $\cot M$

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

34. Given $\sin P = \frac{2}{3}$, find $\sec P$

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

35. Given $\sin D = \frac{1}{8}$, find $\operatorname{cosec} D$

(i) $\frac{8}{21}\sqrt{7}$ (ii) $\frac{1}{21}\sqrt{7}$ (iii) 8 (iv) $\frac{3}{8}\sqrt{7}$ (v) $3\sqrt{7}$

36. Given $\cos N = \frac{1}{4}\sqrt{15}$, find $\sin N$

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

37. Given $\cos M = \frac{1}{3}\sqrt{5}$, find $\tan M$

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

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

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

39. Given $\cos D = \frac{2}{5}\sqrt{6}$, find $\sec D$

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

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

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

41. Given $\tan F = \frac{2}{5}\sqrt{5}$, find $\sin F$

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

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

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

43. Given $\tan B = \frac{8}{17}\sqrt{17}$, find $\cot B$

(i) $\frac{8}{9}$ (ii) $\frac{1}{8}\sqrt{17}$ (iii) $\frac{9}{17}\sqrt{17}$ (iv) $\frac{9}{8}$ (v) $\frac{1}{9}\sqrt{17}$

44. Given $\tan M = \frac{1}{4}\sqrt{2}$, find $\sec M$

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

45. Given $\tan H = \frac{4}{33}\sqrt{33}$, find $\operatorname{cosec} H$

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

46. Given $\cot A = \sqrt{15}$, find $\sin A$

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

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

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

48. Given $\cot H = \frac{3}{2}\sqrt{5}$, find $\tan H$

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

49. Given $\cot B = \frac{1}{2}\sqrt{5}$, find $\sec B$

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

50. Given $\cot G = \frac{1}{8}\sqrt{17}$, find $\operatorname{cosec} G$

(i) $\frac{9}{8}$ (ii) $\frac{9}{17}\sqrt{17}$ (iii) $\frac{8}{17}\sqrt{17}$ (iv) $\frac{1}{9}\sqrt{17}$ (v) $\frac{8}{9}$

51. Given $\sec B = \frac{4}{7}\sqrt{7}$, find $\sin B$

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

52. Given $\sec A = \frac{9}{65}\sqrt{65}$, find $\cos A$

(i) $\frac{9}{4}$ (ii) $\frac{4}{65}\sqrt{65}$ (iii) $\frac{1}{9}\sqrt{65}$ (iv) $\frac{4}{9}$ (v) $\frac{1}{4}\sqrt{65}$

53. Given $\sec C = \frac{9}{20}\sqrt{5}$, find $\tan C$

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

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

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

55. Given $\sec P = \frac{7}{12}\sqrt{6}$, find $\operatorname{cosec} P$

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

56. Given $\operatorname{cosec} F = 5$, find $\sin F$

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

57. Given $\operatorname{cosec} K = 4$, find $\cos K$

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

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

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

59. Given $\operatorname{cosec} C = \frac{5}{2}$, find $\cot C$

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

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

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

61. If $\cot\theta = \frac{2}{3}$, find $\frac{(1+\sin\theta)(1-\sin\theta)}{(1-\cos\theta)(1+\cos\theta)}$

(i) $\frac{4}{7}$ (ii) $\frac{4}{9}$ (iii) $\frac{4}{11}$ (iv) $\frac{2}{3}$ (v) $\frac{2}{9}$

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

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

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

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

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

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

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

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

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

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

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

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

68. Given that $13\cos\theta = 12$, find $\sin\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

77. Given that $15\tan\theta = 8$, find $\operatorname{cosec}\theta$

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

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

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

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

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

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

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

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

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

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

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

83. Given that $3\sec\theta = 5$, find $\sin\theta$

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

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

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

85. Given that $4\sec\theta = 5$, find $\tan\theta$

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

86. Given that $3\sec\theta = 5$, find $\cot\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

Assignment Key

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