EduSahara™ Assignment

Name : Finding a Trigonometric Ratio given other Ratio

Chapter : Trigonometrical Identities

Grade : ICSE Grade X

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10. Given $\cos E = \frac{3}{5}$, find $\operatorname{cosec} E$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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28. Given $\operatorname{cosec} C = \frac{5}{4}$, find $\tan C$

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

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29. Given $\operatorname{cosec} E = \frac{13}{5}$, find $\cot E$

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

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

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

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31. Given $\sin M = \frac{2}{5}$, find $\cos M$

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

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32. Given $\sin B = \frac{7}{8}$, find $\tan B$

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

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

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

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

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

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35. Given $\sin M = \frac{1}{6}$, find $\operatorname{cosec} M$

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

36. Given $\cos A = \frac{1}{2}\sqrt{3}$, find $\sin A$

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

37. Given $\cos M = \frac{2}{3}\sqrt{2}$, find $\tan M$

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

38. Given $\cos A = \frac{3}{8}\sqrt{7}$, find $\cot A$

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

39. Given $\cos B = \frac{1}{9}\sqrt{65}$, find $\sec B$

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

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

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

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

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

42. Given $\tan K = \frac{4}{33}\sqrt{33}$, find $\cos K$

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

43. Given $\tan A = \frac{1}{20}\sqrt{5}$, find $\cot A$

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

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

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

45. Given $\tan K = \frac{2}{5}\sqrt{5}$, find $\operatorname{cosec} K$

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

46. Given $\cot H = \frac{2}{5}\sqrt{6}$, find $\sin H$

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

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

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

48. Given $\cot K = \frac{1}{8}\sqrt{17}$, find $\tan K$

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

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

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

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

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

51. Given $\sec E = \frac{7}{20}\sqrt{10}$, find $\sin E$

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

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

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

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

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

54. Given $\sec H = \frac{9}{65}\sqrt{65}$, find $\cot H$

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

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

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

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

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

57. Given $\operatorname{cosec} P = \frac{7}{5}$, find $\cos P$

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

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

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

59. Given $\operatorname{cosec} N = \frac{8}{5}$, find $\cot N$

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

60. Given $\operatorname{cosec} H = 2$, find $\sec H$

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

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

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

62. Given that $5\sin\theta = 4$, find $\tan\theta$

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

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

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

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

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

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

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

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

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

67. Given that $5\cos\theta = 3$, find $\tan\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

87. Given that $8\operatorname{cosec}\theta = 17$, find $\cos\theta$

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

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

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

89. Given that $5\operatorname{cosec}\theta = 13$, find $\cot\theta$

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

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

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

Assignment Key

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