EduSahara™ Assignment

Name : Finding a Trigonometric Ratio given other Ratio

Chapter : Introduction to Trigonometry

Grade : CBSE Grade X

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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14. Given $\tan C = \frac{8}{15}$, find $\sec C$

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

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

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

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

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

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

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

18. Given $\cot E = \frac{15}{8}$, find $\tan E$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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29. Given $\operatorname{cosec} B = \frac{5}{4}$, find $\cot B$

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

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

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

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31. Given $\sin K = \frac{2}{3}$, find $\cos K$

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

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

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

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33. Given $\sin E = \frac{2}{9}$, find $\cot E$

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

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

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

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35. Given $\sin J = \frac{1}{4}$, find $\operatorname{cosec} J$

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

36. Given $\cos H = \frac{1}{4}\sqrt{7}$, find $\sin H$

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

37. Given $\cos D = \frac{1}{2}\sqrt{3}$, find $\tan D$

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

38. Given $\cos G = \frac{4}{9}\sqrt{2}$, find $\cot G$

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

39. Given $\cos M = \frac{1}{8}\sqrt{39}$, find $\sec M$

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

40. Given $\cos B = \frac{1}{7}\sqrt{33}$, find $\operatorname{cosec} B$

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

41. Given $\tan P = \frac{5}{11}\sqrt{11}$, find $\sin P$

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

42. Given $\tan B = \frac{2}{21}\sqrt{21}$, find $\cos B$

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

43. Given $\tan F = \frac{3}{20}\sqrt{10}$, find $\cot F$

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

44. Given $\tan H = \frac{5}{12}\sqrt{6}$, find $\sec H$

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

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

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

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

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

47. Given $\cot N = \frac{1}{5}\sqrt{39}$, find $\cos N$

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

48. Given $\cot H = 2\sqrt{6}$, find $\tan H$

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

49. Given $\cot J = \sqrt{35}$, find $\sec J$

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

50. Given $\cot J = \frac{4}{7}\sqrt{2}$, find $\operatorname{cosec} J$

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

51. Given $\sec C = \frac{3}{4}\sqrt{2}$, find $\sin C$

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

52. Given $\sec E = \frac{8}{15}\sqrt{15}$, find $\cos E$

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

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

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

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

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

55. Given $\sec C = \frac{5}{12}\sqrt{6}$, find $\operatorname{cosec} C$

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

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

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

57. Given $\operatorname{cosec} G = \frac{5}{2}$, find $\cos G$

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

58. Given $\operatorname{cosec} B = \frac{8}{3}$, find $\tan B$

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

59. Given $\operatorname{cosec} G = 3$, find $\cot G$

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

60. Given $\operatorname{cosec} G = \frac{7}{3}$, find $\sec G$

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

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

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

62. Given that $13\sin\theta = 5$, find $\tan\theta$

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

63. Given that $17\sin\theta = 8$, find $\cot\theta$

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

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

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

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

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

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

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

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

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

68. Given that $17\cos\theta = 15$, find $\cot\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

87. Given that $5\operatorname{cosec}\theta = 13$, find $\cos\theta$

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

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

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

89. Given that $8\operatorname{cosec}\theta = 17$, find $\cot\theta$

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

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

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

Assignment Key

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