EduSahara™ Assignment

Name : Finding a Trigonometric Ratio given other Ratio

Chapter : Trigonometrical Ratios

Grade : ICSE Grade IX

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

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

2. Given $\sin F = \frac{4}{5}$, find $\tan F$

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

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

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

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

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

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

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

6. Given $\cos D = \frac{12}{13}$, find $\sin D$

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

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

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

8. Given $\cos E = \frac{3}{5}$, find $\cot E$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

25. Given $\sec P = \frac{17}{15}$, find $\operatorname{cosec} P$

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

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

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

27. Given $\operatorname{cosec} D = \frac{5}{3}$, find $\cos D$

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

28. Given $\operatorname{cosec} F = \frac{13}{5}$, find $\tan F$

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

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

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

30. Given $\operatorname{cosec} F = \frac{13}{5}$, find $\sec F$

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

31. Given $\sin B = \frac{3}{7}$, find $\cos B$

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

32. Given $\sin A = \frac{1}{3}$, find $\tan A$

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

33. Given $\sin J = \frac{4}{5}$, find $\cot J$

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

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

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

35. Given $\sin K = \frac{3}{4}$, find $\operatorname{cosec} K$

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

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

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

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

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

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

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

39. Given $\cos G = \frac{3}{8}\sqrt{7}$, find $\sec G$

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

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

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

41. Given $\tan D = \frac{6}{13}\sqrt{13}$, find $\sin D$

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

42. Given $\tan B = \frac{6}{13}\sqrt{13}$, find $\cos B$

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

43. Given $\tan D = \frac{2}{15}\sqrt{5}$, find $\cot D$

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

44. Given $\tan J = \frac{2}{5}\sqrt{5}$, find $\sec J$

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

45. Given $\tan J = \frac{8}{17}\sqrt{17}$, find $\operatorname{cosec} J$

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

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46. Given $\cot F = \frac{1}{4}\sqrt{33}$, find $\sin F$

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

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

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

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

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

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

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

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50. Given $\cot K = 2\sqrt{6}$, find $\operatorname{cosec} K$

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

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51. Given $\sec E = \frac{5}{21}\sqrt{21}$, find $\sin E$

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

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

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

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53. Given $\sec B = \frac{6}{35}\sqrt{35}$, find $\tan B$

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

54. Given $\sec E = \frac{3}{5}\sqrt{5}$, find $\cot E$

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

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55. Given $\sec E = \frac{7}{20}\sqrt{10}$, find $\operatorname{cosec} E$

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

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56. Given $\operatorname{cosec} J = \frac{7}{3}$, find $\sin J$

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

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57. Given $\operatorname{cosec} G = \frac{6}{5}$, find $\cos G$

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

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58. Given $\operatorname{cosec} H = 3$, find $\tan H$

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

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59. Given $\operatorname{cosec} E = \frac{9}{2}$, find $\cot E$

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

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60. Given $\operatorname{cosec} G = \frac{4}{3}$, find $\sec G$

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

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61. If $\cot\theta = \frac{2}{7}$, find $\frac{(1+\sin\theta)(1-\sin\theta)}{(1-\cos\theta)(1+\cos\theta)}$

(i) $\frac{6}{49}$ (ii) $\frac{2}{49}$ (iii) $\frac{4}{51}$ (iv) $\frac{4}{47}$ (v) $\frac{4}{49}$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

81. Given that $4\cot\theta = 3$, find $\sec\theta$

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

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

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

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

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

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

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

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

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

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

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

87. Given that $12\sec\theta = 13$, find $\operatorname{cosec}\theta$

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

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

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

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

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

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

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

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

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

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

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

Assignment Key

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