EduSahara™ Learning Center Assignment

Grade : Class X, CBSE
Chapter : Introduction to Trigonometry
Name : Finding a Trigonometric Ratio given other Ratio

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

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

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

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

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

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

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

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

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

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

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6. Given $\cos K = \frac{3}{5}$, find $\sin K$

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

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

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

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

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

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9. Given $\cos J = \frac{3}{5}$, find $\sec J$

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

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

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

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

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

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12. Given $\tan P = \frac{3}{4}$, find $\cos P$

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

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13. Given $\tan P = \frac{5}{12}$, find $\cot P$

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

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

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

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

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

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16. Given $\cot J = \frac{15}{8}$, find $\sin J$

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

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

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

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

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

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19. cot sec 12

Given N = $\frac{}{5}$, find N

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(iv) $\frac{1}{2}\sqrt{5}$ (v) $\frac{2}{5}\sqrt{5}$

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32. Given $\sin P = \frac{2}{3}$, find $\tan P$

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

(iv) $\frac{3}{2}$ (v) $\frac{3}{5}\sqrt{5}$

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33. Given $\sin P = \frac{1}{2}$, find $\cot P$

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

(iv) $\sqrt{3}$ (v) 2

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34. Given $\sin K = \frac{8}{9}$, find $\sec K$

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

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

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35. Given $\sin E = \frac{3}{5}$, find $\operatorname{cosec} E$

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

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

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36. Given $\cos G = \frac{1}{9}\sqrt{77}$, find $\sin G$

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

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

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

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

(iv) $\frac{3}{2}$ (v) $\frac{2}{5}\sqrt{5}$

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

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

(iv) $\frac{1}{21}\sqrt{7}$ (v) $\frac{8}{21}\sqrt{7}$

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39. Given $\cos N = \frac{1}{7}\sqrt{33}$, find $\sec N$

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

(iv) $\frac{7}{4}$ (v) $\frac{4}{33}\sqrt{33}$

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40. Given $\cos M = \frac{1}{7}\sqrt{13}$, find $\operatorname{cosec} M$

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

(iv) $\frac{7}{13}\sqrt{13}$ (v) $\frac{6}{13}\sqrt{13}$

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41. Given $\tan G = \frac{3}{55}\sqrt{55}$, find $\sin G$

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

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

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42. Given $\tan E = \frac{4}{3}$, find $\cos E$

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

(iv) $\frac{3}{5}$ (v) $\frac{5}{3}$

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43. Given $\tan F = \frac{2}{21}\sqrt{21}$, find $\cot F$

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

(iv) $\frac{5}{21}\sqrt{21}$ (v) $\frac{1}{5}\sqrt{21}$

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44. Given $\tan D = \frac{1}{3}\sqrt{3}$, find $\sec D$

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

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

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

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

(iv) 2 (v) $\frac{}{3}$

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

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

(iv) $\frac{2}{3}\sqrt{3}$ (v) 2

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47. Given $\cot G = \sqrt{3}$, find $\cos G$

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

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

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

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

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

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49. Given $\cot J = \frac{1}{3}\sqrt{7}$, find $\sec J$

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

(iv) $\frac{4}{3}$ (v) $\frac{3}{7}\sqrt{7}$

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

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

(iv) 1 (v) 1

$\frac{}{3}$ $\frac{}{4}$ $\sqrt{\frac{}{2}}$

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51. Given $\sec P = \frac{5}{3}$, find $\sin P$

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

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

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52. Given $\sec D = \frac{6}{35}\sqrt{35}$, find $\cos D$

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

(iv) $\frac{1}{6}$ (v) 6

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

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

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

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54. Given $\sec A = \frac{7}{12}\sqrt{3}$, find $\cot A$

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

(iv) $\frac{1}{7}$ (v) 7

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55. Given $\sec M = \frac{6}{35}\sqrt{35}$, find $\operatorname{cosec} M$

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

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

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

7

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

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

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

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

(iv) $\frac{7}{12}\sqrt{6}$ (v) $\frac{2}{7}\sqrt{6}$

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58. Given $\operatorname{cosec} M = \frac{9}{2}$, find $\tan M$

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

(iv) $\frac{2}{77}\sqrt{77}$ (v) $\frac{2}{9}$

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59. Given $\operatorname{cosec} D = \frac{7}{5}$, find $\cot D$

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

(iv) $\frac{5}{7}$ (v) $\frac{5}{12}\sqrt{6}$

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60. Given $\operatorname{cosec} H = \frac{3}{2}$, find $\sec H$

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

(iv) $\frac{1}{2}\sqrt{5}$ (v) $\frac{2}{5}\sqrt{5}$

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

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

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

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

---

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

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

---

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

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

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

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

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66. Given that $17\cos\theta = 15$, find $\sin\theta$

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

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67. Given that $17\cos\theta = 15$, find $\tan\theta$

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

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

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

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

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

---

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

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

---

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

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

$\frac{3}{3}$ $\frac{5}{5}$ $\frac{5}{5}$ $\frac{4}{4}$ $\frac{3}{3}$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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80. Given that $8\cot\theta = 15$, find $\operatorname{cosec}\theta$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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88. Given that $5 \operatorname{cosec}\theta = 13$, find $\tan\theta$

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

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

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

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

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

Assignment Key

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2) (iv)
3) (v)
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5) (ii)
6) (v)
7) (v)
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