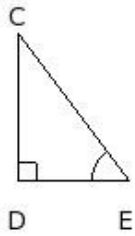
EduSahara™ Assignment

Name : Basics of Trigonometric Ratios

Chapter : Introduction to Trigonometry

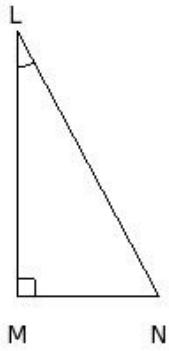
Grade : CBSE Grade X

1. In the given figure, $\sin E =$



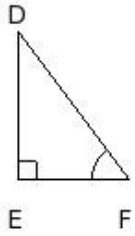
(i) $\frac{CD}{CE}$ (ii) $\frac{ED}{FD}$ (iii) $\frac{CD}{ED}$ (iv) $\frac{ED}{CD}$ (v) $\frac{EC}{DC}$

2. In the given figure, $\cos L =$



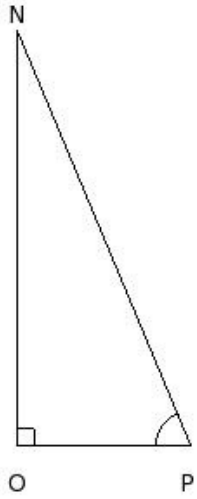
(i) $\frac{LM}{LN}$ (ii) $\frac{NL}{NM}$ (iii) $\frac{LN}{LM}$ (iv) $\frac{NL}{ML}$ (v) $\frac{NM}{OM}$

3. In the given figure, $\tan F =$



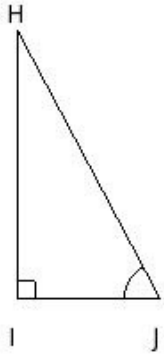
(i) $\frac{FE}{GF}$ (ii) $\frac{DE}{FD}$ (iii) $\frac{DE}{EF}$ (iv) $\frac{FD}{EF}$ (v) $\frac{FE}{DF}$

4. In the given figure, $\cot P$ =



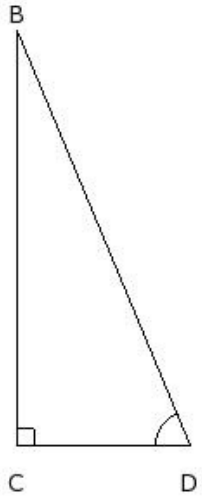
(i) $\frac{QP}{PO}$ (ii) $\frac{NP}{PO}$ (iii) $\frac{OP}{PN}$ (iv) $\frac{PN}{NO}$ (v) $\frac{OP}{NO}$

5. In the given figure, $\sec J$ =



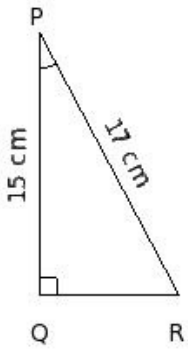
(i) $\frac{HJ}{IJ}$ (ii) $\frac{KI}{KJ}$ (iii) $\frac{HI}{HJ}$ (iv) $\frac{JI}{JH}$ (v) $\frac{IH}{IJ}$

6. In the given figure, $\operatorname{cosec} D$ =



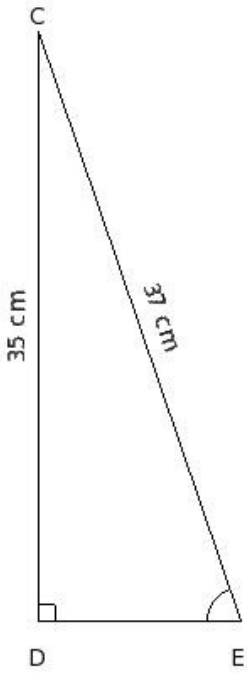
(i) $\frac{CB}{DB}$ (ii) $\frac{BD}{BC}$ (iii) $\frac{BC}{DC}$ (iv) $\frac{EC}{DC}$ (v) $\frac{DC}{BC}$

7. In the given figure, $\sin P$ =



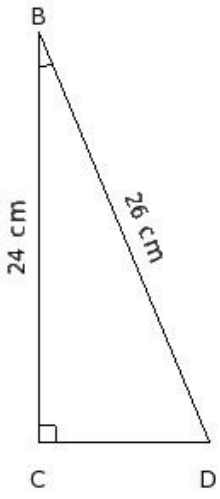
(i) $\frac{8}{17}$ (ii) $\frac{8}{15}$ (iii) $\frac{8}{19}$ (iv) $\frac{10}{17}$ (v) $\frac{6}{17}$

8. In the given figure, $\cos E$ =



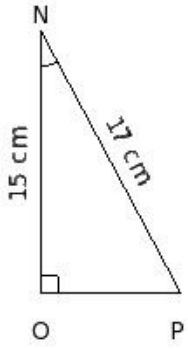
(i) $\frac{12}{37}$ (ii) $\frac{10}{37}$ (iii) $\frac{14}{37}$ (iv) $\frac{4}{13}$ (v) $\frac{12}{35}$

9. In the given figure, $\tan B$ =



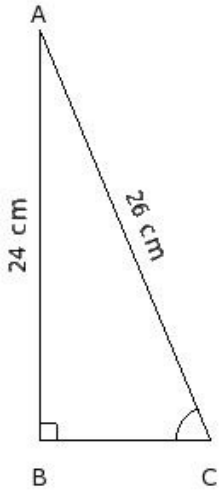
(i) $\frac{5}{12}$ (ii) $\frac{5}{14}$ (iii) $\frac{1}{2}$ (iv) $\frac{7}{12}$ (v) $\frac{1}{4}$

10. In the given figure, $\cot N$ =



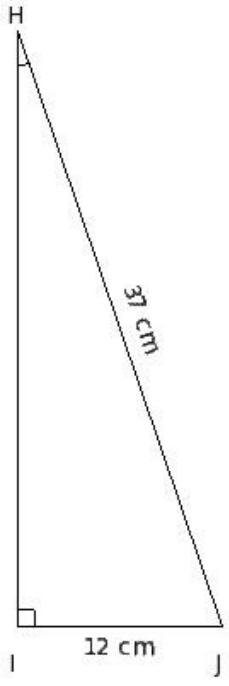
(i) $\frac{5}{2}$ (ii) $\frac{13}{8}$ (iii) $\frac{17}{8}$ (iv) $\frac{3}{2}$ (v) $\frac{15}{8}$

11. In the given figure, $\sec C$ =



(i) $\frac{13}{7}$ (ii) 3 (iii) $\frac{11}{5}$ (iv) $\frac{13}{5}$ (v) $\frac{13}{3}$

12. In the given figure, $\operatorname{cosec} H$ =



(i) $\frac{37}{10}$ (ii) $\frac{37}{12}$ (iii) $\frac{35}{12}$ (iv) $\frac{13}{4}$ (v) $\frac{37}{14}$

13. $\sin G =$

(i) $\frac{1}{\operatorname{cosec} G}$ (ii) $\frac{1}{\sec G}$ (iii) $\frac{1}{\cot G}$ (iv) $\frac{1}{\tan G}$ (v) $\frac{1}{\cos G}$

14. $\cos J =$

(i) $\frac{1}{\operatorname{cosec} J}$ (ii) $\frac{1}{\sin J}$ (iii) $\frac{1}{\sec J}$ (iv) $\frac{1}{\tan J}$ (v) $\frac{1}{\cot J}$

15. $\tan H =$

(i) $\frac{1}{\operatorname{cosec} H}$ (ii) $\frac{1}{\cot H}$ (iii) $\frac{1}{\sin H}$ (iv) $\frac{1}{\sec H}$ (v) $\frac{1}{\cos H}$

16. $\cot E =$

(i) $\frac{1}{\cos E}$ (ii) $\frac{1}{\operatorname{cosec} E}$ (iii) $\frac{1}{\tan E}$ (iv) $\frac{1}{\sec E}$ (v) $\frac{1}{\sin E}$

17. $\sec C =$

(i) $\frac{1}{\sin C}$ (ii) $\frac{1}{\cot C}$ (iii) $\frac{1}{\operatorname{cosec} C}$ (iv) $\frac{1}{\tan C}$ (v) $\frac{1}{\cos C}$

18. $\operatorname{cosec} E =$

(i) $\frac{1}{\tan E}$ (ii) $\frac{1}{\cos E}$ (iii) $\frac{1}{\sec E}$ (iv) $\frac{1}{\sin E}$ (v) $\frac{1}{\cot E}$

19. In $\triangle ABC$, right angled at B, if $AB = 15$ cm and $BC = 8$ cm, find $\sin C$

(i) $\frac{15}{19}$ (ii) $\frac{15}{17}$ (iii) $\frac{13}{17}$ (iv) 1

20. In $\triangle PQR$, right angled at Q, if $PQ = 15$ cm and $QR = 8$ cm, find $\cos P$

(i) $\frac{15}{17}$ (ii) 1 (iii) $\frac{15}{19}$ (iv) $\frac{13}{17}$

21. In $\triangle NOP$, right angled at O, if $NO = 24$ cm and $OP = 10$ cm, find $\tan N$

(i) $\frac{5}{14}$ (ii) $\frac{7}{12}$ (iii) $\frac{1}{2}$ (iv) $\frac{5}{12}$ (v) $\frac{1}{4}$

22. In $\triangle NOP$, right angled at O, if $NO = 15$ cm and $OP = 8$ cm, find $\cot N$

(i) $\frac{3}{2}$ (ii) $\frac{17}{8}$ (iii) $\frac{13}{8}$ (iv) $\frac{15}{8}$ (v) $\frac{5}{2}$

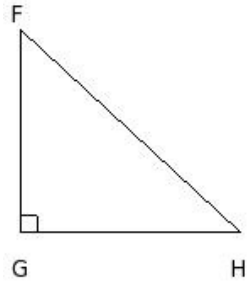
23. In $\triangle HIJ$, right angled at I, if HI = 24 cm and IJ = 10 cm, find sec H

(i) $\frac{13}{14}$ (ii) $\frac{5}{4}$ (iii) $\frac{13}{10}$ (iv) $\frac{11}{12}$ (v) $\frac{13}{12}$

24. In $\triangle FGH$, right angled at G, if FG = 35 cm and GH = 12 cm, find cosec H

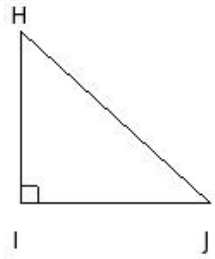
(i) $\frac{37}{35}$ (ii) 1 (iii) $\frac{39}{35}$ (iv) $\frac{37}{33}$

25. From the given figure, find $\sin(90 - H)$



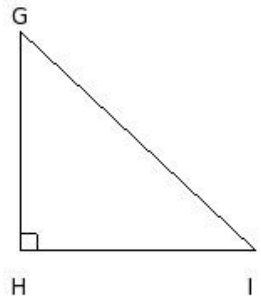
(i) $\frac{FG}{FH}$ (ii) $\frac{GH}{FH}$ (iii) $\frac{FG}{GH}$ (iv) $\frac{GH}{FG}$ (v) $\frac{FH}{FG}$

26. From the given figure, find $\cos(90 - H)$



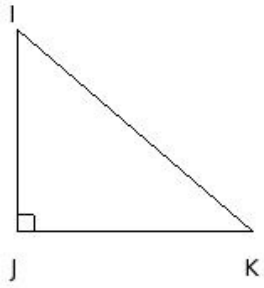
(i) $\frac{HJ}{HI}$ (ii) $\frac{HI}{IJ}$ (iii) $\frac{HI}{HJ}$ (iv) $\frac{IJ}{HJ}$ (v) $\frac{IJ}{HI}$

27. From the given figure, find $\tan(90 - G)$



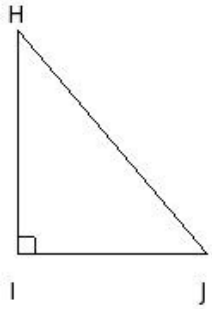
(i) $\frac{GI}{GH}$ (ii) $\frac{GH}{HI}$ (iii) $\frac{HI}{GI}$ (iv) $\frac{GH}{GI}$ (v) $\frac{GI}{HI}$

28. From the given figure, find $\operatorname{cosec}(90 - K)$



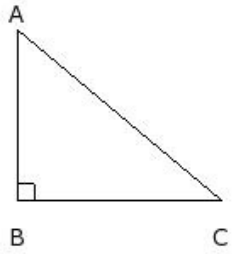
(i) $\frac{JK}{IJ}$ (ii) $\frac{IK}{IJ}$ (iii) $\frac{IJ}{IK}$ (iv) $\frac{IJ}{JK}$ (v) $\frac{IK}{JK}$

29. From the given figure, find $\sec(90 - H)$



(i) $\frac{IJ}{HI}$ (ii) $\frac{HJ}{IJ}$ (iii) $\frac{HI}{HJ}$ (iv) $\frac{HJ}{HI}$ (v) $\frac{HI}{IJ}$

30. From the given figure, find $\cot(90 - A)$



(i) $\frac{BC}{AC}$ (ii) $\frac{AC}{AB}$ (iii) $\frac{AB}{AC}$ (iv) $\frac{AC}{BC}$ (v) $\frac{BC}{AB}$

Assignment Key

1) (i)	2) (i)	3) (iii)	4) (v)	5) (i)	6) (ii)
7) (i)	8) (i)	9) (i)	10) (v)	11) (iv)	12) (ii)
13) (i)	14) (iii)	15) (ii)	16) (iii)	17) (v)	18) (iv)
19) (ii)	20) (i)	21) (iv)	22) (iv)	23) (v)	24) (i)
25) (ii)	26) (iv)	27) (ii)	28) (v)	29) (ii)	30) (v)