EduSahara™ Assignment

Name : Basics of Trigonometric Ratios

Chapter : Introduction to Trigonometry

Grade : CBSE Grade X

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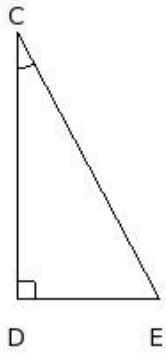
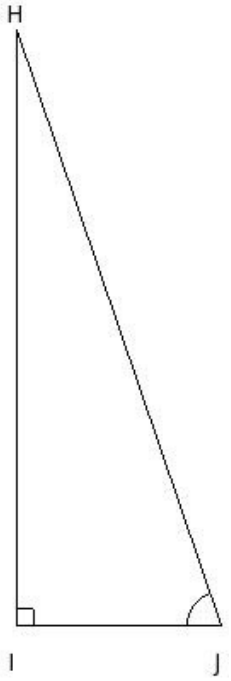
1. In the given figure, $\sin C$ =



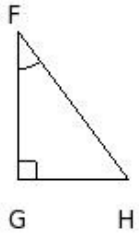
(i) $\frac{ED}{CD}$ (ii) $\frac{CD}{ED}$ (iii) $\frac{DE}{DC}$ (iv) $\frac{FE}{FD}$ (v) $\frac{DE}{CE}$

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



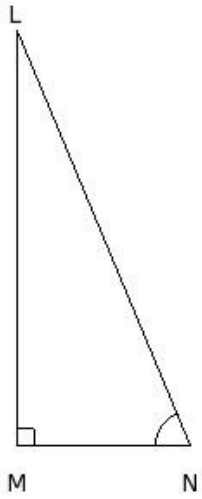
(i) $\frac{JH}{JI}$ (ii) $\frac{IJ}{IH}$ (iii) $\frac{IJ}{HJ}$ (iv) $\frac{KJ}{KI}$ (v) $\frac{HJ}{HI}$

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



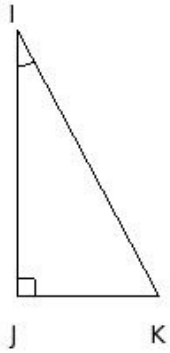
(i) $\frac{IH}{HG}$ (ii) $\frac{FG}{HF}$ (iii) $\frac{HG}{FH}$ (iv) $\frac{GH}{FG}$ (v) $\frac{GH}{HF}$

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



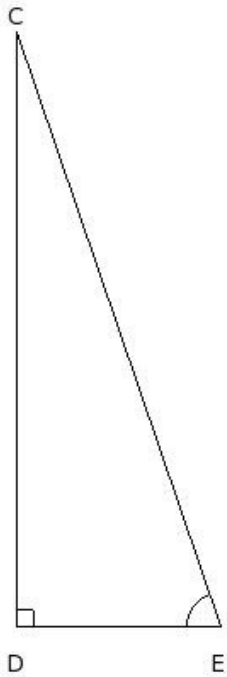
(i) $\frac{MN}{LM}$ (ii) $\frac{MN}{NL}$ (iii) $\frac{NL}{LM}$ (iv) $\frac{ON}{NM}$ (v) $\frac{LN}{NM}$

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



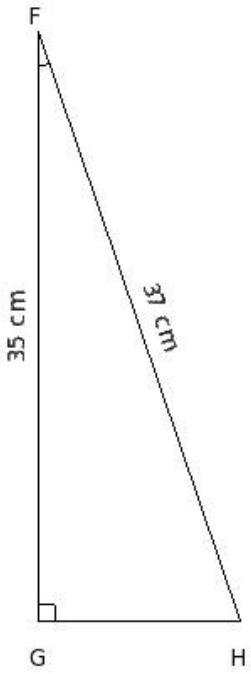
(i) $\frac{IK}{IJ}$ (ii) $\frac{KJ}{KI}$ (iii) $\frac{LJ}{KJ}$ (iv) $\frac{JI}{KI}$ (v) $\frac{IJ}{IK}$

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



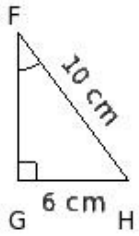
(i) $\frac{CE}{CD}$ (ii) $\frac{ED}{CD}$ (iii) $\frac{FD}{ED}$ (iv) $\frac{DC}{EC}$ (v) $\frac{CD}{ED}$

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



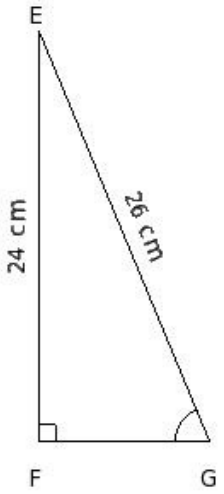
(i) $\frac{10}{37}$ (ii) $\frac{12}{35}$ (iii) $\frac{12}{37}$ (iv) $\frac{4}{13}$ (v) $\frac{14}{37}$

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



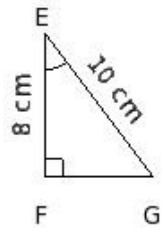
(i) $\frac{6}{5}$ (ii) $\frac{4}{5}$ (iii) $\frac{2}{5}$ (iv) $\frac{4}{3}$ (v) $\frac{4}{7}$

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



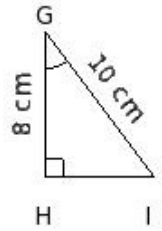
(i) $\frac{12}{5}$ (ii) 4 (iii) $\frac{14}{5}$ (iv) $\frac{12}{7}$ (v) 2

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



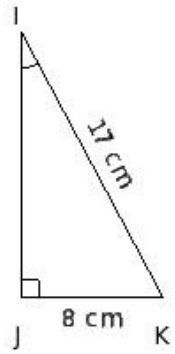
(i) $\frac{2}{3}$ (ii) $\frac{4}{3}$ (iii) 4 (iv) 2 (v) $\frac{4}{5}$

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



(i) $\frac{5}{6}$ (ii) $\frac{5}{4}$ (iii) $\frac{7}{4}$ (iv) $\frac{5}{2}$ (v) $\frac{3}{4}$

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



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

13. $\sin L$ =

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

14. $\cos J$ =

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

15. $\tan D$ =

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

16. $\cot M =$

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

17. $\sec A =$

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

18. $\operatorname{cosec} H =$

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

19. In $\triangle EFG$, right angled at F, if $EF = 24$ cm and $FG = 10$ cm, find $\sin E$

(i) $\frac{1}{3}$ (ii) $\frac{3}{13}$ (iii) $\frac{5}{11}$ (iv) $\frac{7}{13}$ (v) $\frac{5}{13}$

20. In $\triangle DEF$, right angled at E, if $DE = 24$ cm and $EF = 10$ cm, find $\cos D$

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

21. In $\triangle KLM$, right angled at L, if $KL = 8$ cm and $LM = 6$ cm, find $\tan M$

(i) $\frac{2}{3}$ (ii) $\frac{4}{3}$ (iii) 4 (iv) 2 (v) $\frac{4}{5}$

22. In $\triangle DEF$, right angled at E, if $DE = 35$ cm and $EF = 12$ cm, find $\cot F$

(i) $\frac{12}{37}$ (ii) $\frac{4}{11}$ (iii) $\frac{2}{7}$ (iv) $\frac{2}{5}$ (v) $\frac{12}{35}$

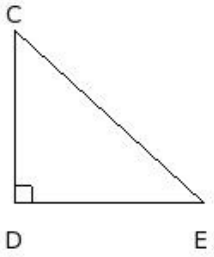
23. In $\triangle MNO$, right angled at N, if $MN = 24$ cm and $NO = 10$ cm, find $\sec O$

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

24. In $\triangle OPQ$, right angled at P, if $OP = 35$ cm and $PQ = 12$ cm, find $\operatorname{cosec} O$

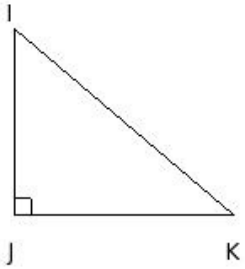
(i) $\frac{37}{12}$ (ii) $\frac{13}{4}$ (iii) $\frac{37}{14}$ (iv) $\frac{35}{12}$ (v) $\frac{37}{10}$

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



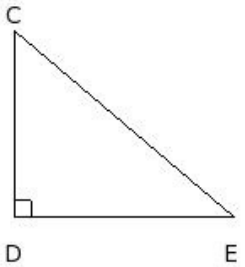
(i) $\frac{DE}{CE}$ (ii) $\frac{DE}{CD}$ (iii) $\frac{CD}{DE}$ (iv) $\frac{CD}{CE}$ (v) $\frac{CE}{CD}$

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



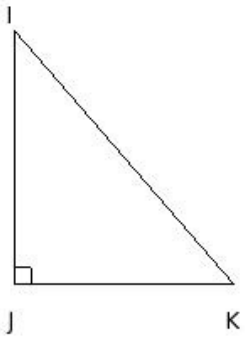
(i) $\frac{JK}{IK}$ (ii) $\frac{JK}{IJ}$ (iii) $\frac{IJ}{IK}$ (iv) $\frac{IK}{IJ}$ (v) $\frac{IJ}{JK}$

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



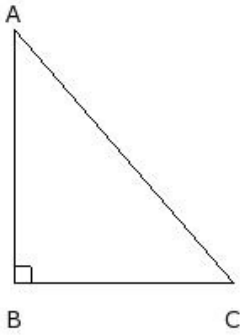
(i) $\frac{CD}{CE}$ (ii) $\frac{CE}{DE}$ (iii) $\frac{DE}{CE}$ (iv) $\frac{DE}{CD}$ (v) $\frac{CE}{CD}$

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



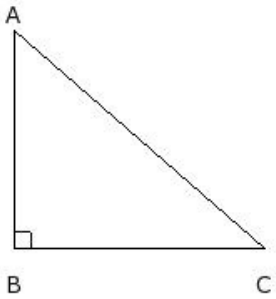
(i) $\frac{IJ}{IK}$ (ii) $\frac{IK}{JK}$ (iii) $\frac{IJ}{JK}$ (iv) $\frac{JK}{IJ}$ (v) $\frac{IK}{IJ}$

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



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

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



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

Assignment Key

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

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