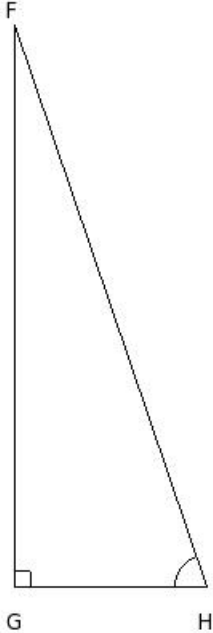
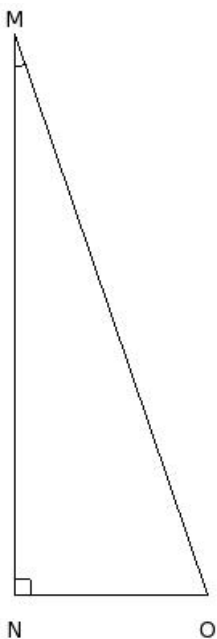


EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Trigonometrical Ratios****Name : Basics of Trigonometric Ratios**

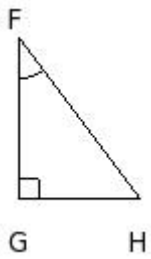
1. In the given figure, $\sin H =$ 

- (i) $\frac{FG}{FH}$ (ii) $\frac{HG}{FG}$ (iii) $\frac{HF}{GF}$ (iv) $\frac{FG}{HG}$ (v) $\frac{HG}{IG}$
-

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

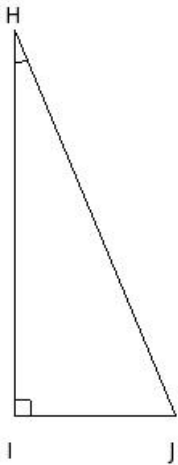
- (i) $\frac{MN}{MO}$ (ii) $\frac{OM}{NM}$ (iii) $\frac{ON}{PN}$ (iv) $\frac{OM}{ON}$ (v) $\frac{MO}{MN}$
-

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



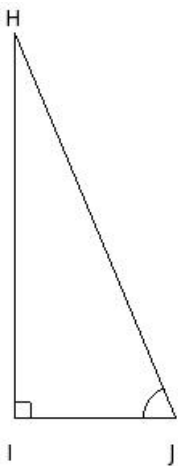
- (i) $\frac{HG}{FH}$ (ii) $\frac{GH}{HF}$ (iii) $\frac{IH}{HG}$ (iv) $\frac{FG}{HF}$ (v) $\frac{GH}{FG}$

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



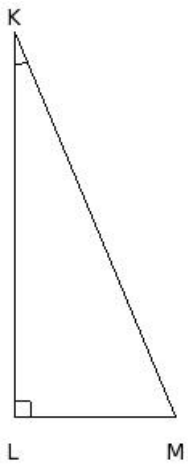
- (i) $\frac{JI}{KJ}$ (ii) $\frac{JH}{HI}$ (iii) $\frac{JH}{IJ}$ (iv) $\frac{HJ}{JI}$ (v) $\frac{HI}{IJ}$

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



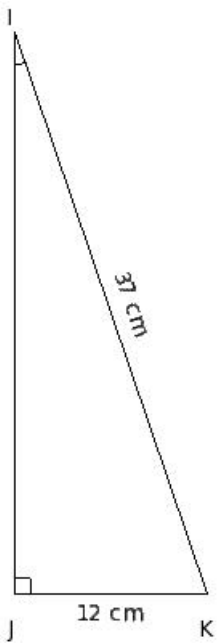
- (i) $\frac{JI}{JH}$ (ii) $\frac{HI}{HJ}$ (iii) $\frac{HJ}{IJ}$ (iv) $\frac{IH}{IJ}$ (v) $\frac{KI}{KJ}$

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



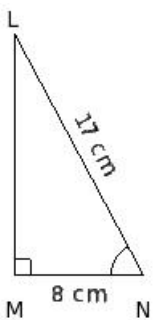
- (i) $\frac{ML}{KL}$ (ii) $\frac{LK}{LM}$ (iii) $\frac{KL}{ML}$ (iv) $\frac{NL}{NM}$ (v) $\frac{KM}{LM}$

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



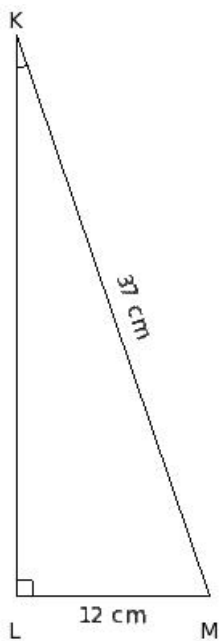
- (i) $\frac{4}{13}$ (ii) $\frac{14}{37}$ (iii) $\frac{10}{37}$ (iv) $\frac{12}{37}$ (v) $\frac{12}{35}$

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



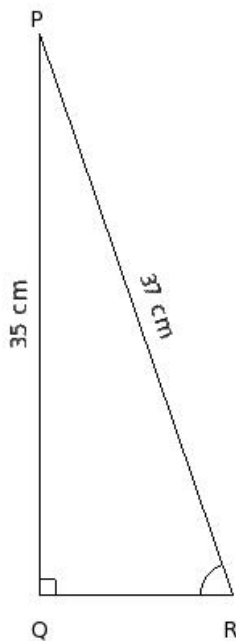
- (i) $\frac{8}{15}$ (ii) $\frac{8}{17}$ (iii) $\frac{10}{17}$ (iv) $\frac{6}{17}$ (v) $\frac{8}{19}$

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



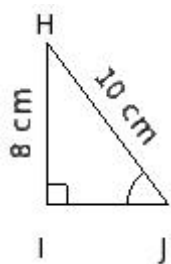
- (i) $\frac{2}{7}$ (ii) $\frac{4}{11}$ (iii) $\frac{12}{35}$ (iv) $\frac{12}{37}$ (v) $\frac{2}{5}$

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



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

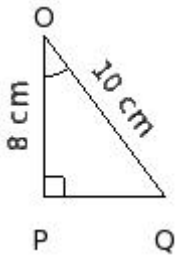
11. In the given figure, $\sec J =$



- (i) $\frac{7}{3}$ (ii) $\frac{5}{3}$ (iii) 5 (iv) 1

12. cosec

In the given figure, $\sin O =$



- (i) $\frac{5}{13}$ (ii) $\frac{1}{13}$ (iii) $\frac{7}{13}$ (iv) $\frac{5}{10}$

13. $\sin F =$

- (i) $\frac{1}{\csc F}$ (ii) $\frac{1}{\cot F}$ (iii) $\frac{1}{\sec F}$ (iv) $\frac{1}{\tan F}$ (v) $\frac{1}{\cos F}$

14. $\cos C =$

- (i) $\frac{1}{\csc C}$ (ii) $\frac{1}{\sin C}$ (iii) $\frac{1}{\tan C}$ (iv) $\frac{1}{\sec C}$ (v) $\frac{1}{\cot C}$

15. $\tan K =$

- (i) $\frac{1}{\cot K}$ (ii) $\frac{1}{\sin K}$ (iii) $\frac{1}{\csc K}$ (iv) $\frac{1}{\cos K}$ (v) $\frac{1}{\sec K}$

16. $\cot J =$

- (i) $\frac{1}{\cos J}$ (ii) $\frac{1}{\sec J}$ (iii) $\frac{1}{\tan J}$ (iv) $\frac{1}{\csc J}$ (v) $\frac{1}{\sin J}$

17. $\sec K =$

- (i) $\frac{1}{\cos K}$ (ii) $\frac{1}{\tan K}$ (iii) $\frac{1}{\csc K}$ (iv) $\frac{1}{\sin K}$ (v) $\frac{1}{\cot K}$

18. $\csc G =$

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

19. In $\triangle OPQ$, right angled at P, if $OP = 35$ cm and $PQ = 12$ cm, find $\sin O$

- $\frac{14}{25}$ $\frac{10}{25}$ $\frac{12}{25}$ $\frac{4}{25}$ $\frac{12}{35}$

- (i) 3' (ii) 3' (iii) 3' (iv) 13 (v) 33
-

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

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

21. In $\triangle HIJ$, right angled at I, if $HI = 35$ cm and $IJ = 12$ cm, find $\tan H$

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

22. In $\triangle IJK$, right angled at J, if $IJ = 35$ cm and $JK = 12$ cm, find $\cot K$

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

23. In $\triangle LMN$, right angled at M, if $LM = 15$ cm and $MN = 8$ cm, find $\sec N$

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

24. In $\triangle ABC$, right angled at B, if $AB = 8$ cm and $BC = 6$ cm, find $\operatorname{cosec} C$

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

Assignment Key

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