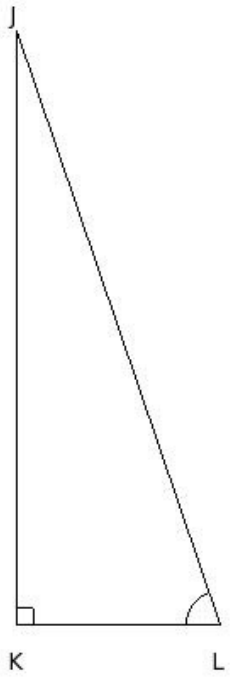
EduSahara™ Assignment

Name : Basics of Trigonometric Ratios

Chapter : Introduction to Trigonometry

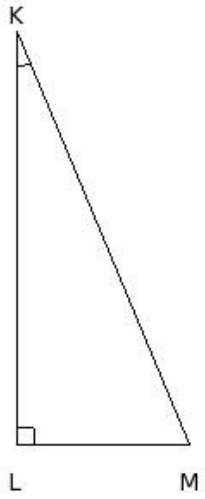
Grade : CBSE Grade X

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



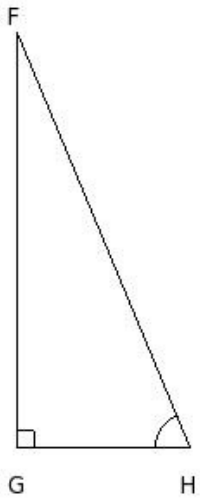
(i) $\frac{JK}{JL}$ (ii) $\frac{LK}{JK}$ (iii) $\frac{JK}{LK}$ (iv) $\frac{LJ}{KJ}$ (v) $\frac{LK}{MK}$

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



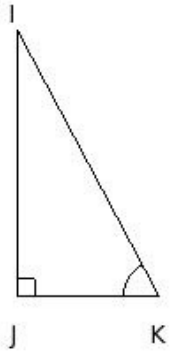
(i) $\frac{MK}{LK}$ (ii) $\frac{ML}{NL}$ (iii) $\frac{MK}{ML}$ (iv) $\frac{KM}{KL}$ (v) $\frac{KL}{KM}$

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



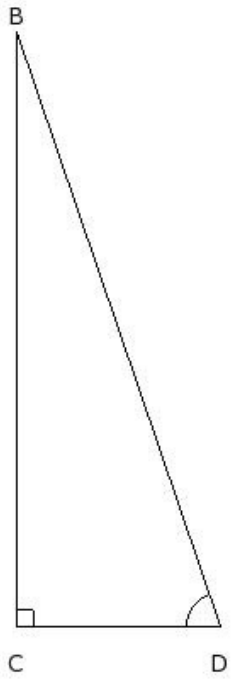
(i) $\frac{FG}{GH}$ (ii) $\frac{HG}{FH}$ (iii) $\frac{FG}{HF}$ (iv) $\frac{HG}{IH}$ (v) $\frac{HF}{GH}$

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



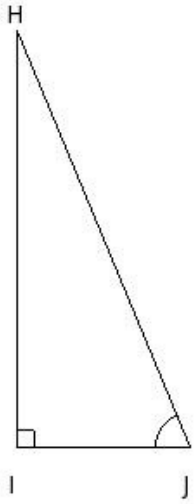
(i) $\frac{IK}{KJ}$ (ii) $\frac{JK}{IJ}$ (iii) $\frac{KI}{IJ}$ (iv) $\frac{LK}{KJ}$ (v) $\frac{JK}{KI}$

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



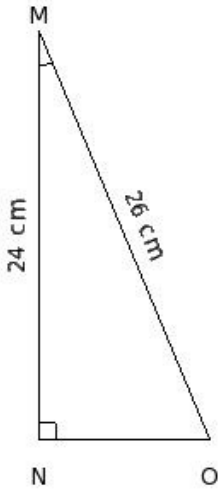
(i) $\frac{BC}{BD}$ (ii) $\frac{DC}{DB}$ (iii) $\frac{EC}{ED}$ (iv) $\frac{CB}{CD}$ (v) $\frac{BD}{CD}$

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



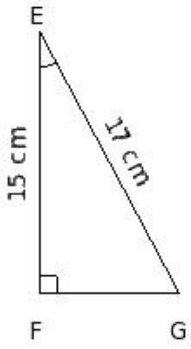
(i) $\frac{IH}{JH}$ (ii) $\frac{HI}{JI}$ (iii) $\frac{JI}{HI}$ (iv) $\frac{KI}{JI}$ (v) $\frac{HJ}{HI}$

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



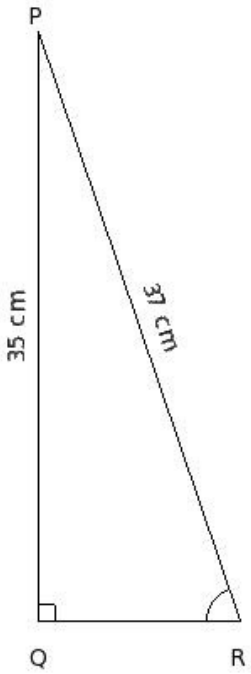
(i) $\frac{1}{3}$ (ii) $\frac{3}{13}$ (iii) $\frac{7}{13}$ (iv) $\frac{5}{13}$ (v) $\frac{5}{11}$

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



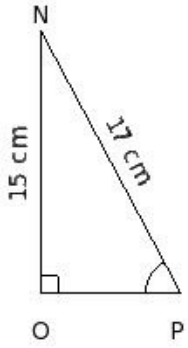
(i) $\frac{15}{17}$ (ii) $\frac{15}{19}$ (iii) 1 (iv) $\frac{13}{17}$

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



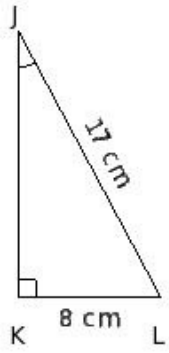
(i) $\frac{35}{12}$ (ii) $\frac{5}{2}$ (iii) $\frac{37}{12}$ (iv) $\frac{7}{2}$ (v) $\frac{11}{4}$

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



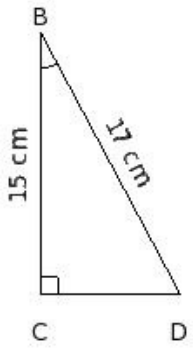
(i) $\frac{8}{15}$ (ii) $\frac{2}{5}$ (iii) $\frac{8}{13}$ (iv) $\frac{8}{17}$ (v) $\frac{2}{3}$

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



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

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



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

13. $\sin F =$

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

14. $\cos D =$

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

15. $\tan J =$

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

16. $\cot B =$

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

17. $\sec J =$

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

18. $\operatorname{cosec} I =$

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

19. In $\triangle JKL$, right angled at K, if JK = 24 cm and KL = 10 cm, find $\sin J$

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

20. In $\triangle JKL$, right angled at K, if JK = 35 cm and KL = 12 cm, find cos J

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

21. In $\triangle BCD$, right angled at C, if BC = 15 cm and CD = 8 cm, find tan D

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

22. In $\triangle DEF$, right angled at E, if DE = 24 cm and EF = 10 cm, find cot F

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

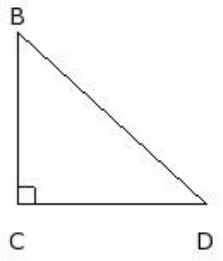
23. In $\triangle KLM$, right angled at L, if KL = 24 cm and LM = 10 cm, find sec K

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

24. In $\triangle KLM$, right angled at L, if KL = 8 cm and LM = 6 cm, find cosec K

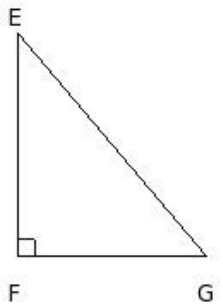
(i) 1 (ii) 5 (iii) $\frac{5}{3}$ (iv) $\frac{7}{3}$

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



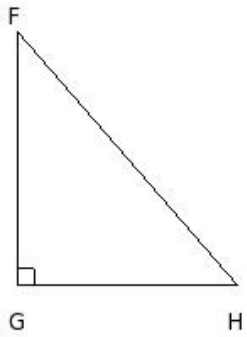
(i) $\frac{BC}{BD}$ (ii) $\frac{BD}{CD}$ (iii) $\frac{BC}{CD}$ (iv) $\frac{CD}{BC}$ (v) $\frac{CD}{BD}$

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



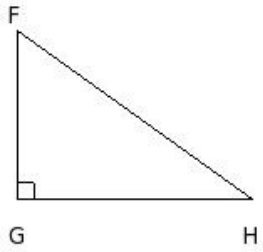
(i) $\frac{EF}{EG}$ (ii) $\frac{FG}{EF}$ (iii) $\frac{EG}{FG}$ (iv) $\frac{EF}{FG}$ (v) $\frac{FG}{EG}$

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



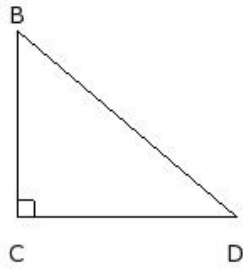
(i) $\frac{GH}{FG}$ (ii) $\frac{FH}{FG}$ (iii) $\frac{FH}{GH}$ (iv) $\frac{FG}{FH}$ (v) $\frac{GH}{FH}$

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



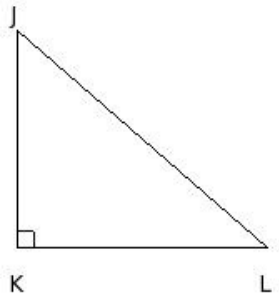
(i) $\frac{FH}{FG}$ (ii) $\frac{FG}{GH}$ (iii) $\frac{FG}{FH}$ (iv) $\frac{GH}{FG}$ (v) $\frac{FH}{GH}$

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



(i) $\frac{BD}{BC}$ (ii) $\frac{CD}{BD}$ (iii) $\frac{BD}{CD}$ (iv) $\frac{BC}{CD}$ (v) $\frac{CD}{BC}$

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



(i) $\frac{KL}{JL}$ (ii) $\frac{JK}{JL}$ (iii) $\frac{JL}{JK}$ (iv) $\frac{JK}{KL}$ (v) $\frac{JL}{KL}$

Assignment Key

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