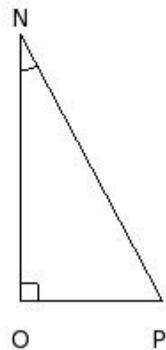


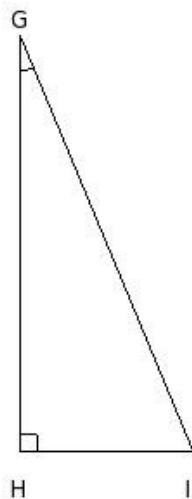


1. In the given figure,  $\sin N =$



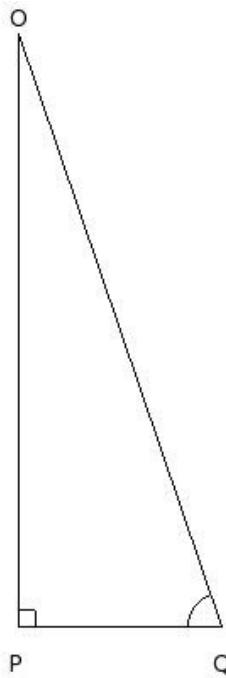
- (i)  $\frac{PO}{NO}$  (ii)  $\frac{OP}{NP}$  (iii)  $\frac{QP}{QO}$  (iv)  $\frac{OP}{ON}$  (v)  $\frac{NO}{PO}$

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



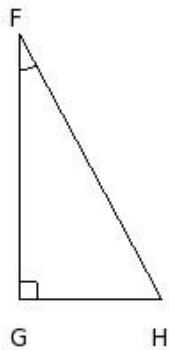
- (i)  $\frac{GH}{GI}$  (ii)  $\frac{IH}{JH}$  (iii)  $\frac{GI}{GH}$  (iv)  $\frac{IG}{IH}$  (v)  $\frac{IG}{HG}$

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



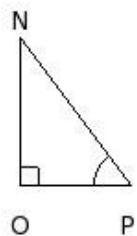
- (i)  $\frac{OP}{PQ}$  (ii)  $\frac{QP}{OQ}$  (iii)  $\frac{QP}{RQ}$  (iv)  $\frac{QO}{PQ}$  (v)  $\frac{OP}{QO}$

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



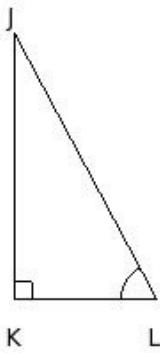
- (i)  $\frac{HF}{FG}$  (ii)  $\frac{HG}{IH}$  (iii)  $\frac{HF}{GH}$  (iv)  $\frac{FG}{GH}$  (v)  $\frac{FH}{HG}$

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



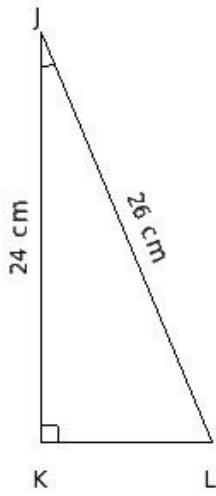
- (i)  $\frac{PO}{PN}$  (ii)  $\frac{ON}{OP}$  (iii)  $\frac{NO}{NP}$  (iv)  $\frac{NP}{OP}$  (v)  $\frac{QO}{QP}$

6. In the given figure,  $\cosec L =$



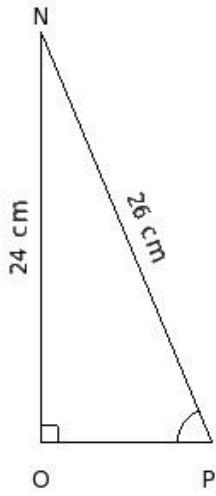
- (i)  $\frac{LK}{JK}$  (ii)  $\frac{KJ}{LJ}$  (iii)  $\frac{MK}{LK}$  (iv)  $\frac{JK}{LK}$  (v)  $\frac{JL}{JK}$

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



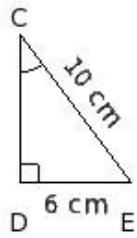
- (i)  $\frac{7}{13}$  (ii)  $\frac{5}{11}$  (iii)  $\frac{5}{13}$  (iv)  $\frac{1}{3}$  (v)  $\frac{3}{13}$

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



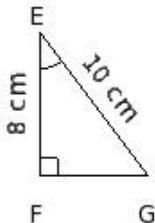
- (i)  $\frac{1}{3}$  (ii)  $\frac{7}{13}$  (iii)  $\frac{5}{11}$  (iv)  $\frac{5}{13}$  (v)  $\frac{3}{13}$

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



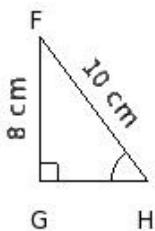
- (i)  $\frac{3}{2}$  (ii)  $\frac{5}{4}$  (iii)  $\frac{3}{4}$  (iv)  $\frac{1}{4}$  (v)  $\frac{1}{2}$

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



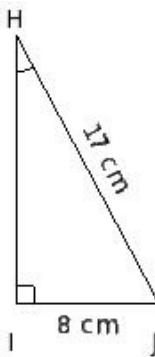
- (i) 2 (ii)  $\frac{4}{5}$  (iii)  $\frac{2}{3}$  (iv)  $\frac{4}{3}$  (v) 4

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



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

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



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

13.  $\sin K =$

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

14.  $\cos A =$

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

15.  $\tan L =$

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

16.  $\cot M =$

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

17.  $\sec C =$

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

18.  $\cosec F =$

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

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

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

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

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

21. In  $\triangle OPQ$ , right angled at P, if OP = 8 cm and PQ = 6 cm, find  $\tan Q$

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

22. In  $\triangle NOP$ , right angled at O, if NO = 8 cm and OP = 6 cm, find  $\cot N$

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

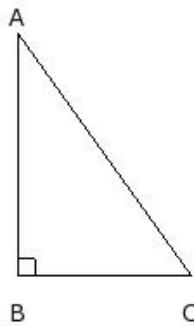
23. In  $\triangle FGH$ , right angled at G, if FG = 15 cm and GH = 8 cm, find  $\sec H$

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

24. In  $\triangle HIJ$ , right angled at I, if  $HI = 24 \text{ cm}$  and  $IJ = 10 \text{ cm}$ , find  $\cosec H$

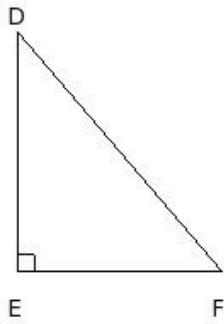
- (i)  $\frac{13}{3}$  (ii)  $\frac{13}{7}$  (iii) 3 (iv)  $\frac{13}{5}$  (v)  $\frac{11}{5}$

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



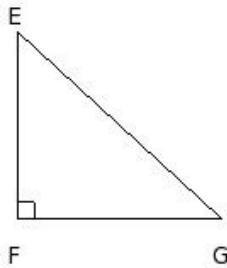
- (i)  $\frac{AB}{BC}$  (ii)  $\frac{BC}{AC}$  (iii)  $\frac{AC}{AB}$  (iv)  $\frac{BC}{AB}$  (v)  $\frac{AB}{AC}$

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



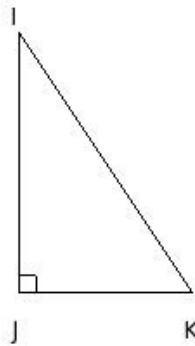
- (i)  $\frac{DF}{DE}$  (ii)  $\frac{DE}{DF}$  (iii)  $\frac{DE}{EF}$  (iv)  $\frac{EF}{DF}$  (v)  $\frac{EF}{DE}$

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



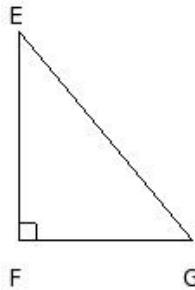
- (i)  $\frac{FG}{EG}$  (ii)  $\frac{EF}{EG}$  (iii)  $\frac{EG}{FG}$  (iv)  $\frac{EF}{FG}$  (v)  $\frac{EG}{EF}$

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



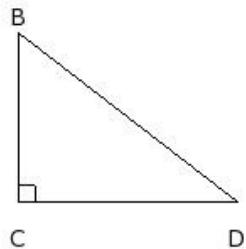
- (i)  $\frac{IJ}{IK}$  (ii)  $\frac{IK}{JK}$  (iii)  $\frac{JK}{IJ}$  (iv)  $\frac{IJ}{JK}$  (v)  $\frac{IK}{IJ}$

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



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

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



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

## Assignment Key

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

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