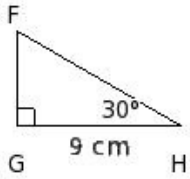


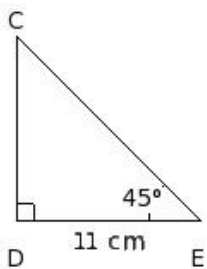


1. In the given figure, $\triangle FGH$ is right angled at G. If $GH = 9$ cm and $\angle H = 30^\circ$, find FG and FH



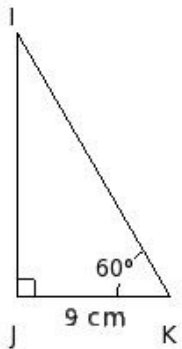
- (i) $3\sqrt{3}$ cm & 18 cm (ii) $3\sqrt{3}$ cm & $6\sqrt{3}$ cm (iii) $3\sqrt{3}$ cm & $6\sqrt{3}$ cm (iv) $3\sqrt{3}$ cm & 21 cm (v) 3 cm & 21 cm

2. In the given figure, $\triangle CDE$ is right angled at D. If $DE = 11$ cm and $\angle E = 45^\circ$, find CD and CE



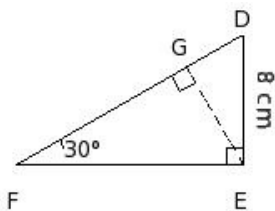
- (i) 12 cm & 24 cm (ii) 12 cm & $11\sqrt{2}$ cm (iii) 11 cm & $11\sqrt{2}$ cm (iv) 9 cm & 24 cm (v) 12 cm & 22 cm

3. In the given figure, $\triangle IJK$ is right angled at J. If $JK = 9$ cm and $\angle K = 60^\circ$, find IJ and IK



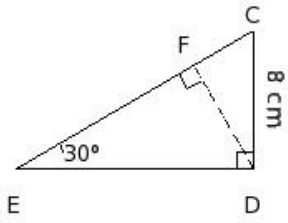
- (i) 9 cm & 19 cm (ii) $9\sqrt{3}$ cm & 17 cm (iii) $9\sqrt{3}$ cm & 18 cm (iv) $9\sqrt{3}$ cm & 19 cm (v) $9\sqrt{3}$ cm & 18 cm

4. In the given figure, $\triangle DFE$ is right angled at E. If $DE = 8$ cm and $\angle F = 30^\circ$, find DF



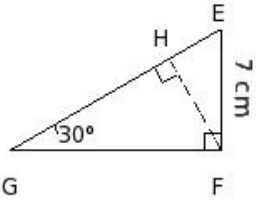
- (i) 14 cm (ii) 18 cm (iii) 15 cm (iv) 17 cm (v) 16 cm

5. In the given figure, $\triangle CED$ is right angled at D. If $CD = 8$ cm and $\angle E = 30^\circ$, find DE



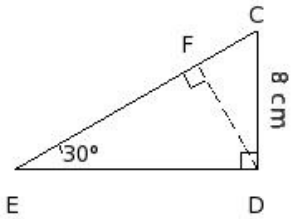
- (i) 8 cm (ii) $8\sqrt{3}$ cm (iii) $12\sqrt{2}$ cm (iv) 24 cm (v) $8\sqrt{18}$ cm

6. In the given figure, $\triangle EGF$ is right angled at F. If $EF = 7$ cm and $\angle G = 30^\circ$, find EH



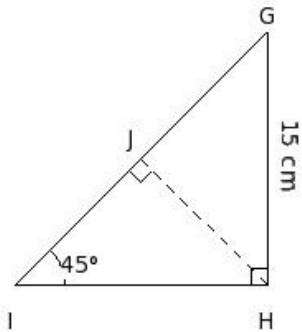
- (i) $\frac{13}{4}$ cm (ii) $\frac{5}{2}$ cm (iii) 4 cm (iv) $\frac{9}{2}$ cm (v) $\frac{7}{2}$ cm

7. In the given figure, $\triangle CED$ is right angled at D. If $CD = 8$ cm and $\angle E = 30^\circ$, find EF



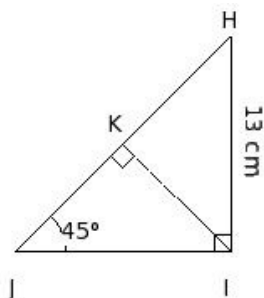
- (i) 14 cm (ii) 11 cm (iii) 10 cm (iv) 12 cm (v) 13 cm

8. In the given figure, $\triangle GIH$ is right angled at H. If $GH = 15$ cm and $\angle I = 45^\circ$, find GI



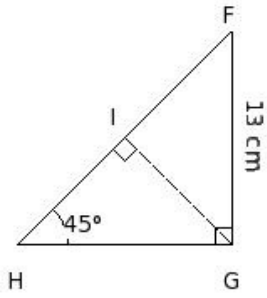
- (i) 15 cm (ii) $\frac{15}{2}\sqrt{12}$ cm (iii) 30 cm (iv) $15\sqrt{2}$ cm (v) $30\sqrt{3}$ cm

9. In the given figure, $\triangle HJI$ is right angled at I. If $HI = 13$ cm and $\angle J = 45^\circ$, find IJ



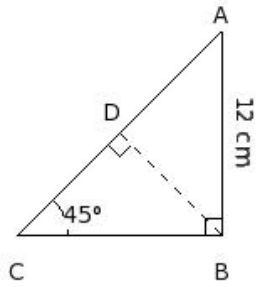
- (i) 14 cm (ii) 11 cm (iii) 13 cm (iv) 12 cm (v) 15 cm

10. In the given figure, $\triangle FHG$ is right angled at G. If $FG = 13$ cm and $\angle H = 45^\circ$, find FI



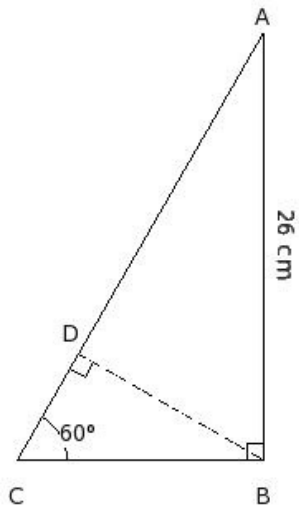
- (i) $13\sqrt{3}$ cm (ii) 13 cm (iii) $\frac{13}{4}\sqrt{12}$ cm (iv) $\frac{13}{2}$ cm (v) $\frac{13}{2}\sqrt{2}$ cm

11. In the given figure, $\triangle ACB$ is right angled at B. If $AB = 12$ cm and $\angle C = 45^\circ$, find CD



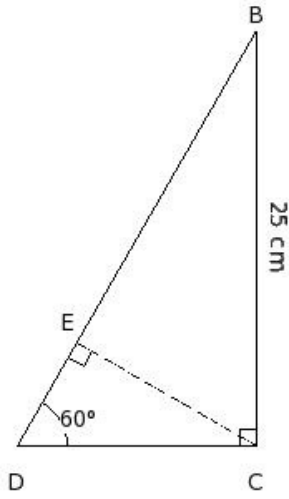
- (i) 12 cm (ii) 6 cm (iii) $6\sqrt{2}$ cm (iv) $12\sqrt{3}$ cm (v) $3\sqrt{12}$ cm

12. In the given figure, $\triangle ACB$ is right angled at B. If $AB = 26$ cm and $\angle C = 60^\circ$, find AC



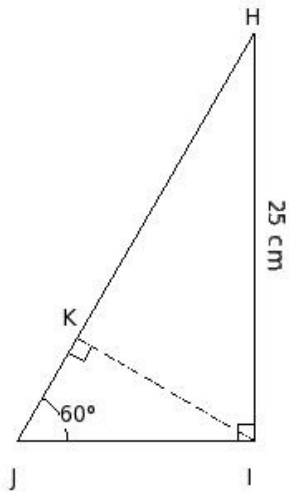
- (i) $26\sqrt{2}$ cm (ii) $\frac{52}{3}\sqrt{3}$ cm (iii) $\frac{52}{3}\sqrt{18}$ cm (iv) $\frac{52}{3}$ cm (v) 52 cm

13. In the given figure, $\triangle BDC$ is right angled at C. If $BC = 25$ cm and $\angle D = 60^\circ$, find CD



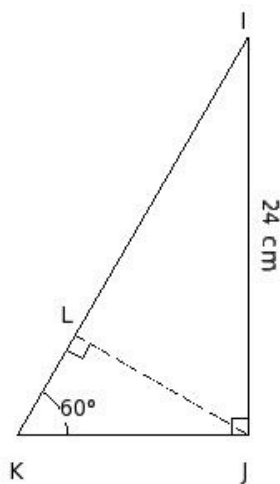
- (i) $\frac{25}{3}\sqrt{3}$ cm (ii) $\frac{25}{3}$ cm (iii) 25 cm (iv) $\frac{25}{3}\sqrt{18}$ cm (v) $\frac{25}{2}\sqrt{2}$ cm

14. In the given figure, $\triangle HJI$ is right angled at I. If $HI = 25$ cm and $\angle J = 60^\circ$, find HK



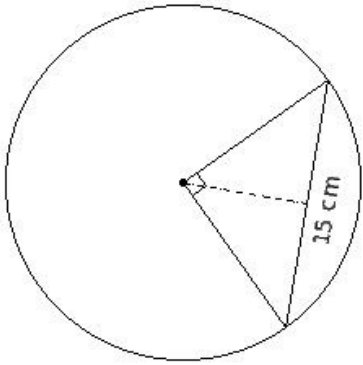
- (i) $\frac{25}{2}\sqrt{3}$ cm (ii) $\frac{75}{2}$ cm (iii) $\frac{25}{2}\sqrt{18}$ cm (iv) $\frac{25}{2}$ cm (v) $\frac{75}{4}\sqrt{2}$ cm

15. In the given figure, $\triangle IKJ$ is right angled at J. If $IJ = 24$ cm and $\angle K = 60^\circ$, find KL



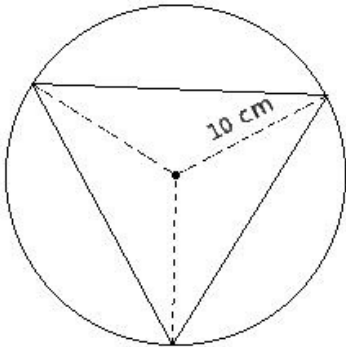
- (i) $4\sqrt{3}$ cm (ii) $4\sqrt{18}$ cm (iii) 4 cm (iv) $6\sqrt{2}$ cm (v) 12 cm

16. A chord of 15 cm subtends an angle of 90° at the centre. Calculate its shortest distance from the centre



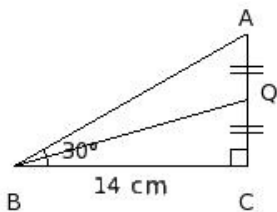
- (i) 6.5 cm (ii) 7.5 cm (iii) 5.5 cm (iv) 8.5 cm (v) 9.5 cm

17. An equilateral triangle is inscribed in a circle of radius 10 cm. Find the length of its sides.



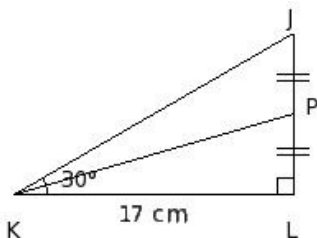
- (i) $10\sqrt{18}$ cm (ii) 30 cm (iii) $15\sqrt{2}$ cm (iv) $10\sqrt{3}$ cm (v) 10 cm

18. In the given figure, $\triangle ABC$ is a right angle triangle with $\angle C = 90^\circ$ and $BC = 14$ cm. Q is the mid-point of AC. Find QC



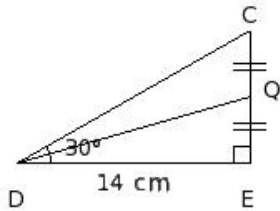
- (i) $\frac{7}{3}\sqrt{3}$ cm (ii) $\frac{7}{3}$ cm (iii) 7 cm (iv) $\frac{7}{3}\sqrt{18}$ cm (v) $\frac{7}{2}\sqrt{2}$ cm

19. In the given figure, $\triangle JKL$ is a right angle triangle with $\angle L = 90^\circ$ and $KL = 17$ cm. P is the mid-point of JL. Find $\angle PKL$ using tables.



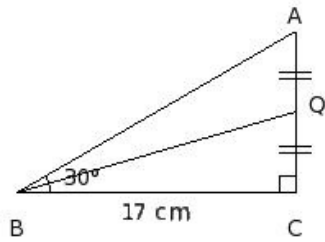
- (i) $13^\circ 6'$ (ii) $16^\circ 6'$ (iii) $14^\circ 6'$ (iv) $18^\circ 6'$ (v) $19^\circ 6'$

20. In the given figure, $\triangle CDE$ is a right angle triangle with $\angle E = 90^\circ$ and $DE = 14$ cm. Q is the mid-point of CE. Find the length of the altitude from E to CD.



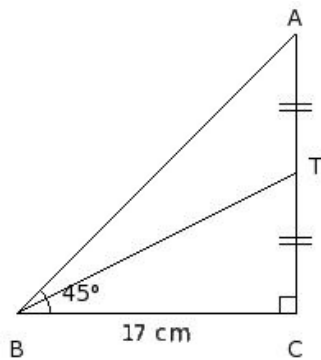
- (i) 7 cm (ii) 10 cm (iii) 8 cm (iv) 5 cm (v) 6 cm

21. In the given figure, $\triangle ABC$ is a right angle triangle with $\angle C = 90^\circ$ and $BC = 17$ cm. Q is the mid-point of AC. Find $\angle QBA$ using tables.



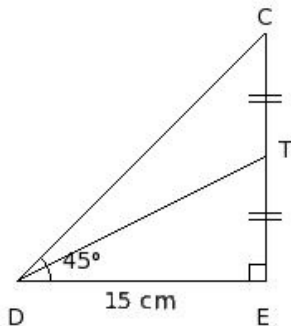
- (i) $16^\circ 54'$ (ii) $10^\circ 54'$ (iii) $11^\circ 54'$ (iv) $15^\circ 54'$ (v) $13^\circ 54'$

22. In the given figure, $\triangle ABC$ is a right angle triangle with $\angle C = 90^\circ$ and $BC = 17$ cm. T is the mid-point of AC. Find TC



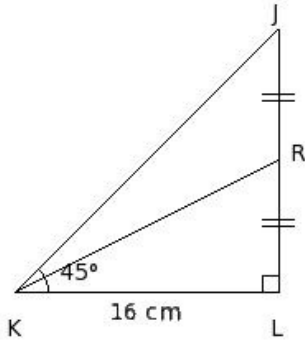
- (i) 9 cm (ii) $\frac{33}{4}$ cm (iii) $\frac{15}{2}$ cm (iv) $\frac{19}{2}$ cm (v) $\frac{17}{2}$ cm

23. In the given figure, $\triangle CDE$ is a right angle triangle with $\angle E = 90^\circ$ and $DE = 15$ cm. T is the mid-point of CE. Find $\angle TDE$ using tables.



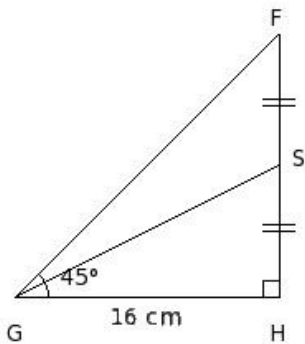
- (i) $26^\circ 34'$ (ii) $28^\circ 34'$ (iii) $23^\circ 34'$ (iv) $24^\circ 34'$ (v) $29^\circ 34'$

24. In the given figure, $\triangle JKL$ is a right angle triangle with $\angle L = 90^\circ$ and $KL = 16$ cm. R is the mid-point of JL. Find the length of the altitude from L to JK.



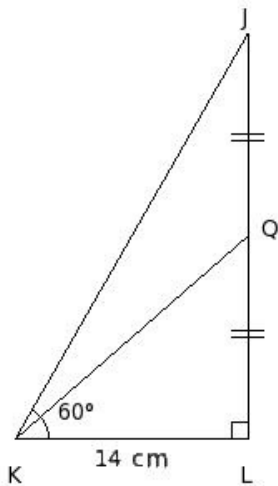
- (i) $8\sqrt{2}$ cm (ii) $4\sqrt{12}$ cm (iii) $16\sqrt{3}$ cm (iv) 8 cm (v) 16 cm

25. In the given figure, $\triangle FGH$ is a right angle triangle with $\angle H = 90^\circ$ and $GH = 16$ cm. S is the mid-point of FH. Find $\angle SGF$ using tables.



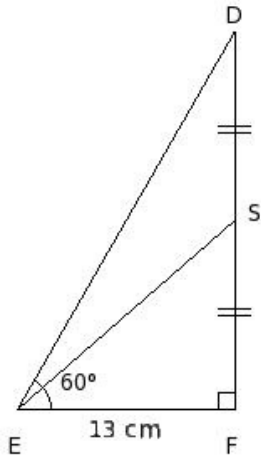
- (i) $18^\circ 26'$ (ii) $15^\circ 26'$ (iii) $21^\circ 26'$ (iv) $16^\circ 26'$ (v) $20^\circ 26'$

26. In the given figure, $\triangle JKL$ is a right angle triangle with $\angle L = 90^\circ$ and $KL = 14$ cm. Q is the mid-point of JL. Find QL



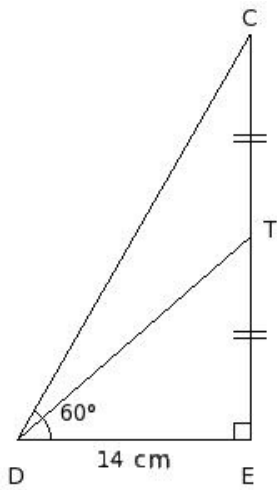
- (i) $7\sqrt{18}$ cm (ii) $7\sqrt{3}$ cm (iii) $\frac{21}{2}\sqrt{2}$ cm (iv) 21 cm (v) 7 cm

27. In the given figure, $\triangle DEF$ is a right angle triangle with $\angle F = 90^\circ$ and $EF = 13$ cm. S is the mid-point of DF. Find $\angle SEF$ using tables.



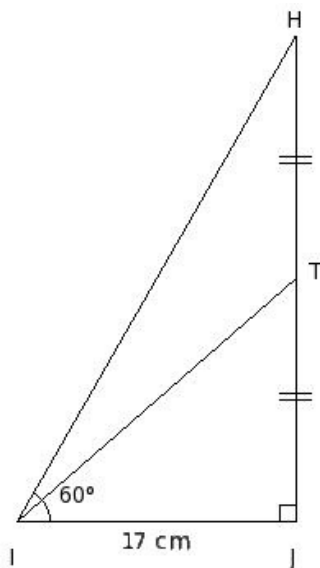
- (i) $42^\circ 53'$ (ii) $37^\circ 53'$ (iii) $40^\circ 53'$ (iv) $43^\circ 53'$ (v) $38^\circ 53'$

28. In the given figure, $\triangle CDE$ is a right angle triangle with $\angle E = 90^\circ$ and $DE = 14$ cm. T is the mid-point of CE. Find the length of the altitude from E to CD.



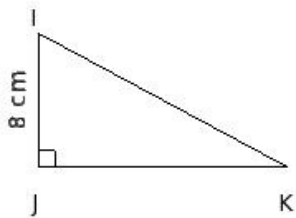
- (i) $\frac{21}{2}\sqrt{2}$ cm (ii) 7 cm (iii) 21 cm (iv) $7\sqrt{18}$ cm (v) $7\sqrt{3}$ cm

29. In the given figure, $\triangle HIJ$ is a right angle triangle with $\angle J = 90^\circ$ and $IJ = 17$ cm. T is the mid-point of HJ. Find $\angle TIH$ using tables.



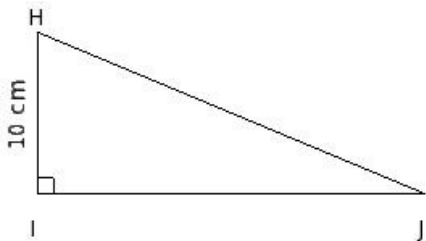
- (i) $16^\circ 7'$ (ii) $17^\circ 7'$ (iii) $21^\circ 7'$ (iv) $22^\circ 7'$ (v) $19^\circ 7'$

30. In the given figure, if $IK - JK = 2$ cm, and $IJ = 8$ cm, find $\sin I$



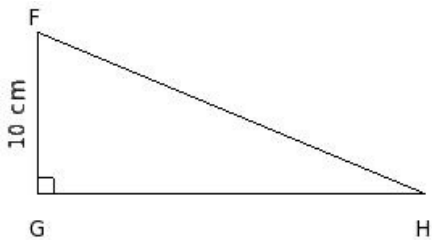
- (i) $\frac{13}{17}$ (ii) $\frac{15}{19}$ (iii) $\frac{15}{17}$ (iv) 1

31. In the given figure, if $HJ - IJ = 2$ cm, and $HI = 10$ cm, find $\cos H$



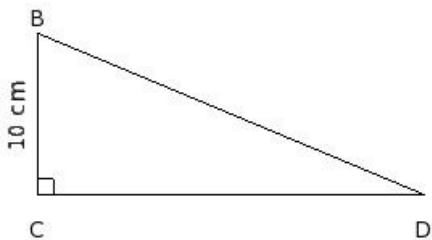
- (i) $\frac{5}{13}$ (ii) $\frac{5}{11}$ (iii) $\frac{7}{13}$ (iv) $\frac{1}{3}$ (v) $\frac{3}{13}$

32. In the given figure, if $FH - GH = 2$ cm, and $FG = 10$ cm, find $\tan F$



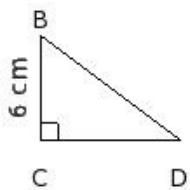
- (i) $\frac{14}{5}$ (ii) 4 (iii) $\frac{12}{5}$ (iv) $\frac{12}{7}$ (v) 2

33. In the given figure, if $BD + CD = 50$ cm, and $BC = 10$ cm, find $\sin B$



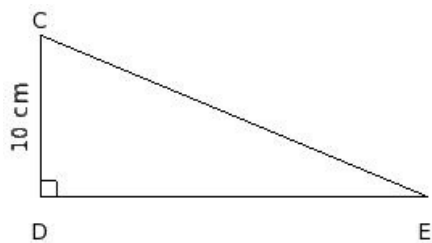
- (i) $\frac{14}{13}$ (ii) $\frac{10}{13}$ (iii) $\frac{12}{11}$ (iv) $\frac{4}{5}$ (v) $\frac{12}{13}$

34. In the given figure, if $BD + CD = 18$ cm, and $BC = 6$ cm, find $\cos B$



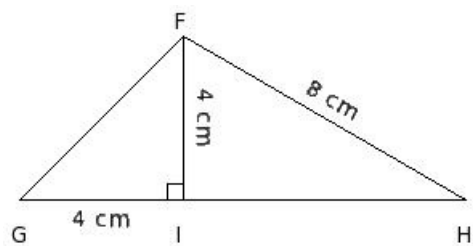
- (i) $\frac{3}{7}$ (ii) 1 (iii) $\frac{3}{5}$ (iv) $\frac{1}{5}$

35. In the given figure, if $CE + DE = 50$ cm, and $CD = 10$ cm, find $\tan C$



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

36. The altitude FI of $\triangle FGH$ in which $\angle F$ is obtuse is 4 cm. If $GI = 4$ cm and $HI = 4\sqrt{3}$ cm, find $\angle GFH$



- (i) 100° (ii) 120° (iii) 110° (iv) 115° (v) 105°

Assignment Key

1) (ii)	2) (iii)	3) (iii)	4) (v)	5) (ii)	6) (v)
7) (iv)	8) (iv)	9) (iii)	10) (v)	11) (iii)	12) (ii)
13) (i)	14) (i)	15) (i)	16) (ii)	17) (iv)	18) (i)
19) (ii)	20) (i)	21) (v)	22) (v)	23) (i)	24) (i)
25) (i)	26) (ii)	27) (iii)	28) (v)	29) (v)	30) (iii)
31) (i)	32) (iii)	33) (v)	34) (iii)	35) (ii)	36) (v)