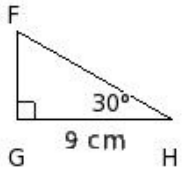


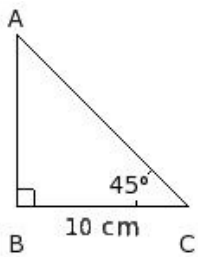


1. In the given figure, $\triangle FGH$ is right angled at G. If $GH = 9$ cm and $\angle H = 30^\circ$, find FG and FH



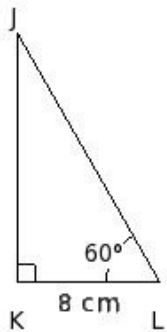
- (i) 3 cm & 21 cm (ii) $3\sqrt{3}$ cm & 21 cm (iii) $3\sqrt{3}$ cm & $6\sqrt{3}$ cm (iv) $3\sqrt{3}$ cm & 18 cm (v) $3\sqrt{3}$ cm & $6\sqrt{3}$ cm

2. In the given figure, $\triangle ABC$ is right angled at B. If $BC = 10$ cm and $\angle C = 45^\circ$, find AB and AC



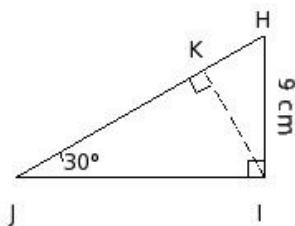
- (i) 11 cm & 20 cm (ii) 11 cm & $10\sqrt{2}$ cm (iii) 11 cm & 22 cm (iv) 8 cm & 22 cm (v) 10 cm & $10\sqrt{2}$ cm

3. In the given figure, $\triangle JKL$ is right angled at K. If $KL = 8$ cm and $\angle L = 60^\circ$, find JK and JL



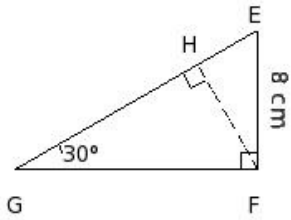
- (i) $8\sqrt{3}$ cm & 15 cm (ii) $8\sqrt{3}$ cm & 16 cm (iii) $8\sqrt{3}$ cm & 16 cm (iv) 8 cm & 17 cm (v) $8\sqrt{3}$ cm & 17 cm

4. In the given figure, $\triangle HJI$ is right angled at I. If $HI = 9$ cm and $\angle J = 30^\circ$, find HJ



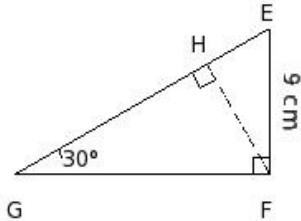
- (i) 15 cm (ii) 18 cm (iii) 20 cm (iv) 17 cm (v) 19 cm

5. In the given figure, $\triangle EGF$ is right angled at F. If $EF = 8$ cm and $\angle G = 30^\circ$, find FG



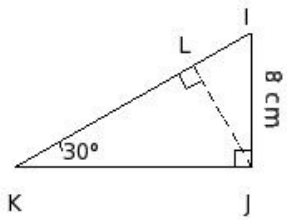
- (i) $8\sqrt{18}$ cm (ii) $8\sqrt{3}$ cm (iii) 24 cm (iv) $12\sqrt{2}$ cm (v) 8 cm

6. In the given figure, $\triangle EGF$ is right angled at F. If $EF = 9$ cm and $\angle G = 30^\circ$, find EH



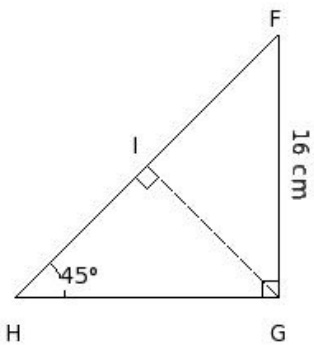
- (i) $\frac{11}{2}$ cm (ii) 5 cm (iii) $\frac{17}{4}$ cm (iv) $\frac{9}{2}$ cm (v) $\frac{7}{2}$ cm

7. In the given figure, $\triangle IKJ$ is right angled at J. If $IJ = 8$ cm and $\angle K = 30^\circ$, find KL



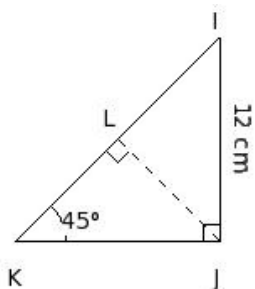
- (i) 13 cm (ii) 12 cm (iii) 14 cm (iv) 11 cm (v) 10 cm

8. In the given figure, $\triangle FHG$ is right angled at G. If $FG = 16$ cm and $\angle H = 45^\circ$, find FH



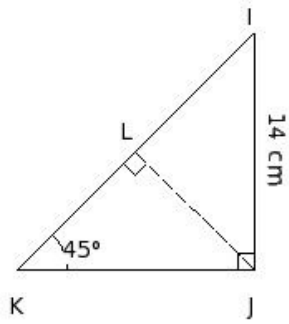
- (i) $8\sqrt{12}$ cm (ii) $32\sqrt{3}$ cm (iii) $16\sqrt{2}$ cm (iv) 32 cm (v) 16 cm

9. In the given figure, $\triangle IKJ$ is right angled at J. If $IJ = 12$ cm and $\angle K = 45^\circ$, find JK



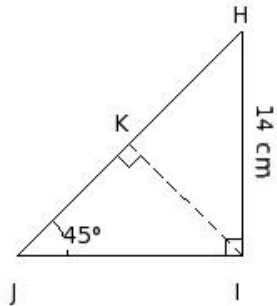
- (i) 11 cm (ii) 13 cm (iii) 9 cm (iv) 12 cm (v) 15 cm

10. In the given figure, $\triangle IKJ$ is right angled at J. If $IJ = 14$ cm and $\angle K = 45^\circ$, find IL



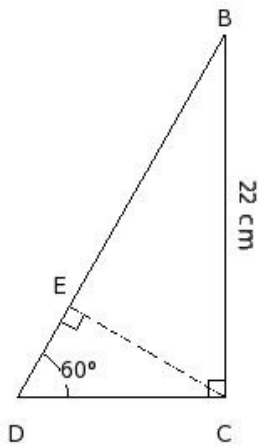
- (i) $\frac{7}{2}\sqrt{12}$ cm (ii) $7\sqrt{2}$ cm (iii) $14\sqrt{3}$ cm (iv) 14 cm (v) 7 cm

11. In the given figure, $\triangle HJI$ is right angled at I. If $HI = 14$ cm and $\angle J = 45^\circ$, find JK



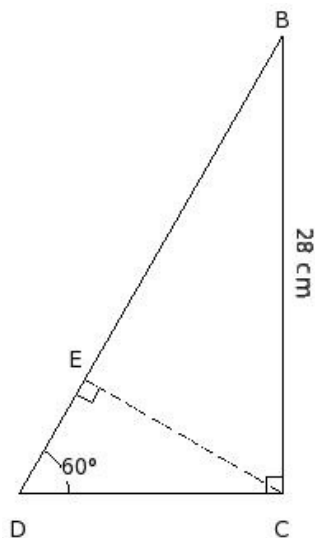
- (i) 14 cm (ii) $7\sqrt{2}$ cm (iii) $\frac{7}{2}\sqrt{12}$ cm (iv) 7 cm (v) $14\sqrt{3}$ cm

12. In the given figure, $\triangle BDC$ is right angled at C. If $BC = 22$ cm and $\angle D = 60^\circ$, find BD



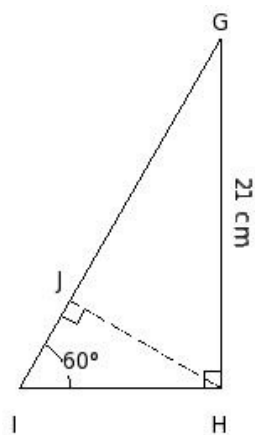
- (i) $22\sqrt{2}$ cm (ii) $\frac{44}{3}$ cm (iii) $\frac{44}{3}\sqrt{18}$ cm (iv) 44 cm (v) $\frac{44}{3}\sqrt{3}$ cm

13. In the given figure, $\triangle BDC$ is right angled at C. If $BC = 28$ cm and $\angle D = 60^\circ$, find CD



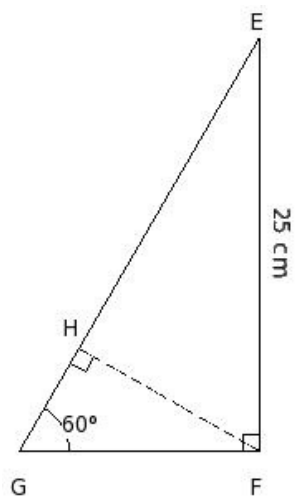
- (i) $\frac{28}{3}$ cm (ii) $\frac{28}{3}\sqrt{3}$ cm (iii) $\frac{28}{3}\sqrt{18}$ cm (iv) 28 cm (v) $14\sqrt{2}$ cm

14. In the given figure, $\triangle GIH$ is right angled at H. If $GH = 21$ cm and $\angle I = 60^\circ$, find GJ



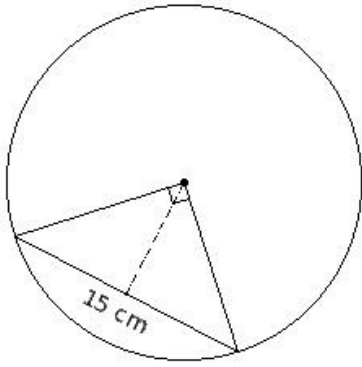
- (i) $\frac{21}{2}$ cm (ii) $\frac{21}{2}\sqrt{3}$ cm (iii) $\frac{63}{2}$ cm (iv) $\frac{63}{4}\sqrt{2}$ cm (v) $\frac{21}{2}\sqrt{18}$ cm

15. In the given figure, $\triangle EGF$ is right angled at F. If $EF = 25$ cm and $\angle G = 60^\circ$, find GH



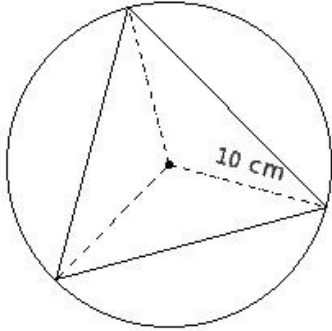
- (i) $\frac{25}{4}\sqrt{2}$ cm (ii) $\frac{25}{6}\sqrt{18}$ cm (iii) $\frac{25}{6}$ cm (iv) $\frac{25}{2}$ cm (v) $\frac{25}{6}\sqrt{3}$ cm

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



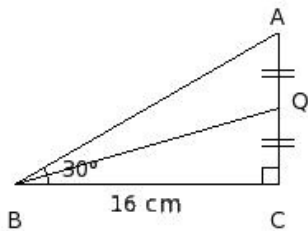
- (i) 9.5 cm (ii) 6.5 cm (iii) 5.5 cm (iv) 7.5 cm (v) 8.5 cm

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



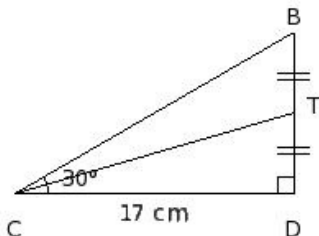
- (i) 30 cm (ii) $15\sqrt{2}$ cm (iii) 10 cm (iv) $10\sqrt{3}$ cm (v) $10\sqrt{18}$ cm

18. In the given figure, $\triangle ABC$ is a right angle triangle with $\angle C = 90^\circ$ and $BC = 16$ cm. Q is the mid-point of AC. Find QC



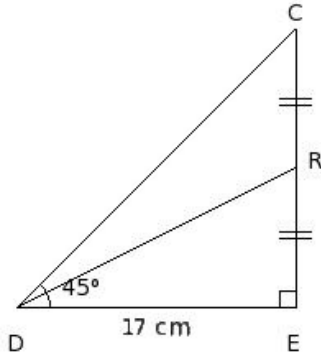
- (i) $4\sqrt{2}$ cm (ii) $\frac{8}{3}\sqrt{18}$ cm (iii) $\frac{8}{3}\sqrt{3}$ cm (iv) $\frac{8}{3}$ cm (v) 8 cm

19. In the given figure, $\triangle BCD$ is a right angle triangle with $\angle D = 90^\circ$ and $CD = 17$ cm. T is the mid-point of BD. Find the length of the altitude from D to BC.



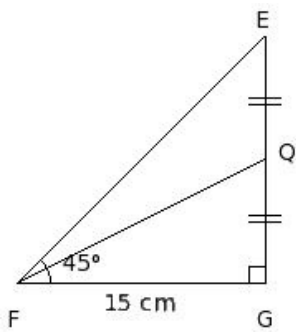
- (i) 9 cm (ii) $\frac{33}{4}$ cm (iii) $\frac{15}{2}$ cm (iv) $\frac{17}{2}$ cm (v) $\frac{19}{2}$ cm

20. In the given figure, $\triangle CDE$ is a right angle triangle with $\angle E = 90^\circ$ and $DE = 17$ cm. R is the mid-point of CE. Find RE



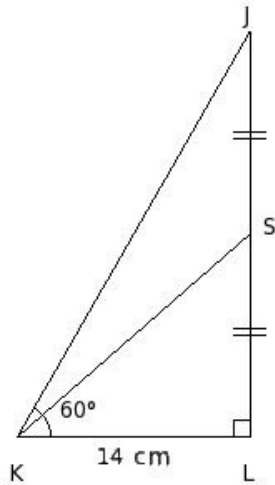
- (i) $\frac{33}{4}$ cm (ii) $\frac{17}{2}$ cm (iii) $\frac{19}{2}$ cm (iv) 9 cm (v) $\frac{15}{2}$ cm

21. In the given figure, $\triangle EFG$ is a right angle triangle with $\angle G = 90^\circ$ and $FG = 15$ cm. Q is the mid-point of EG. Find the length of the altitude from G to EF.



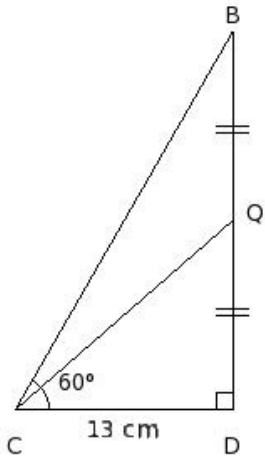
- (i) $\frac{15}{4}\sqrt{12}$ cm (ii) $15\sqrt{3}$ cm (iii) $\frac{15}{2}$ cm (iv) $\frac{15}{2}\sqrt{2}$ cm (v) 15 cm

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



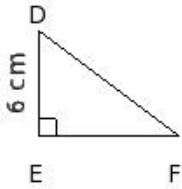
- (i) $7\sqrt{18}$ cm (ii) 7 cm (iii) $7\sqrt{3}$ cm (iv) 21 cm (v) $\frac{21}{2}\sqrt{2}$ cm

23. In the given figure, $\triangle BCD$ is a right angle triangle with $\angle D = 90^\circ$ and $CD = 13$ cm. Q is the mid-point of BD . Find the length of the altitude from D to BC .



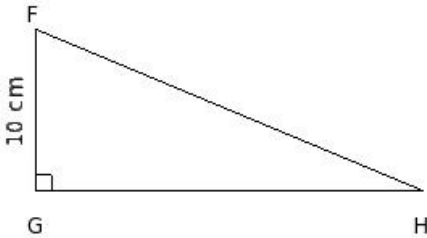
- (i) $\frac{39}{4}\sqrt{2}$ cm (ii) $\frac{39}{2}$ cm (iii) $\frac{13}{2}$ cm (iv) $\frac{13}{2}\sqrt{3}$ cm (v) $\frac{13}{2}\sqrt{18}$ cm

24. In the given figure, if $DF - EF = 2$ cm, and $DE = 6$ cm, find $\sin D$



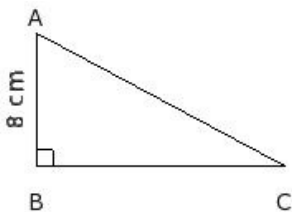
- (i) $\frac{2}{5}$ (ii) $\frac{4}{5}$ (iii) $\frac{6}{5}$ (iv) $\frac{4}{7}$ (v) $\frac{4}{3}$

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



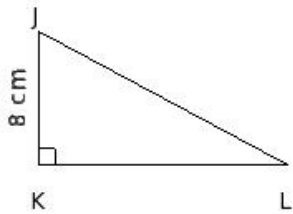
- (i) $\frac{5}{11}$ (ii) $\frac{7}{13}$ (iii) $\frac{1}{3}$ (iv) $\frac{3}{13}$ (v) $\frac{5}{13}$

26. In the given figure, if $AC - BC = 2$ cm, and $AB = 8$ cm, find $\tan A$



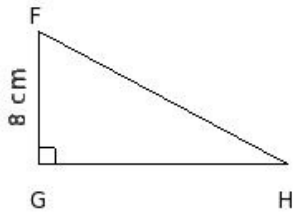
- (i) $\frac{17}{8}$ (ii) $\frac{13}{8}$ (iii) $\frac{15}{8}$ (iv) $\frac{5}{2}$ (v) $\frac{3}{2}$

27. In the given figure, if $JL + KL = 32$ cm, and $JK = 8$ cm, find $\sin J$



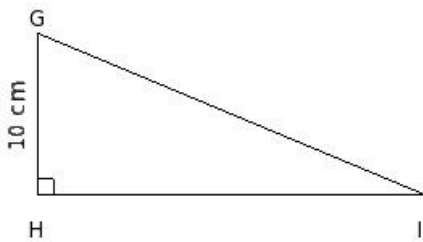
- (i) $\frac{15}{17}$ (ii) 1 (iii) $\frac{15}{19}$ (iv) $\frac{13}{17}$

28. In the given figure, if $FH + GH = 32$ cm, and $FG = 8$ cm, find $\cos F$



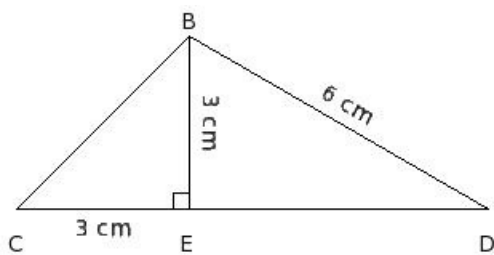
- (i) $\frac{6}{17}$ (ii) $\frac{10}{17}$ (iii) $\frac{8}{17}$ (iv) $\frac{8}{15}$ (v) $\frac{8}{19}$

29. In the given figure, if $GI + HI = 50$ cm, and $GH = 10$ cm, find $\tan G$



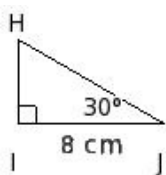
- (i) 2 (ii) $\frac{12}{7}$ (iii) $\frac{12}{5}$ (iv) 4 (v) $\frac{14}{5}$

30. The altitude BE of $\triangle BCD$ in which $\angle B$ is obtuse is 3 cm. If $CE = 3$ cm and $DE = 3\sqrt{3}$ cm, find $\angle CBD$



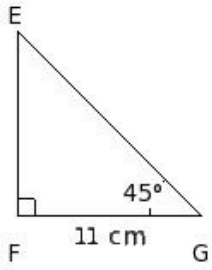
- (i) 110° (ii) 115° (iii) 120° (iv) 105° (v) 100°

31. In the given figure, $\triangle HIJ$ is right angled at I. If $IJ = 8$ cm and $\angle J = 30^\circ$, find HI and HJ



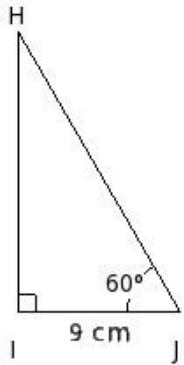
- (i) $\frac{8}{3}\sqrt{3}$ cm & 18 cm (ii) $\frac{8}{3}\sqrt{3}$ cm & $\frac{16}{3}\sqrt{3}$ cm (iii) $\frac{8}{3}\sqrt{3}$ cm & 18 cm (iv) $\frac{8}{3}\sqrt{3}$ cm & $\frac{16}{3}\sqrt{3}$ cm
 (v) $\frac{8}{3}\sqrt{3}$ cm & 16 cm

32. In the given figure, $\triangle EFG$ is right angled at F. If $FG = 11$ cm and $\angle G = 45^\circ$, find EF and EG



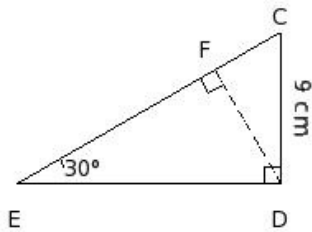
- (i) 12 cm & 22 cm (ii) 9 cm & 25 cm (iii) 11 cm & $11\sqrt{2}$ cm (iv) 12 cm & $11\sqrt{2}$ cm (v) 12 cm & 25 cm

33. In the given figure, $\triangle HIJ$ is right angled at I. If $IJ = 9$ cm and $\angle J = 60^\circ$, find HI and HJ



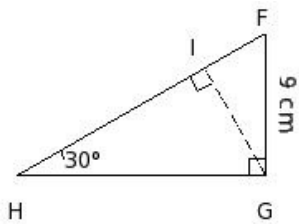
- (i) $9\sqrt{3}$ cm & 20 cm (ii) 9 cm & 20 cm (iii) $9\sqrt{3}$ cm & 18 cm (iv) $9\sqrt{3}$ cm & 18 cm (v) $9\sqrt{3}$ cm & 17 cm

34. In the given figure, $\triangle CED$ is right angled at D. If $CD = 9$ cm and $\angle E = 30^\circ$, find CE



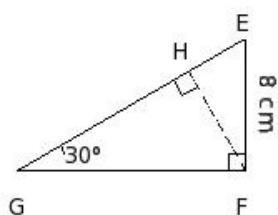
- (i) 21 cm (ii) 15 cm (iii) 19 cm (iv) 17 cm (v) 18 cm

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



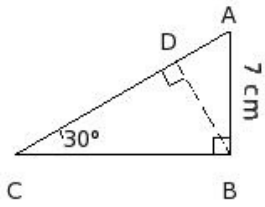
- (i) $9\sqrt{3}$ cm (ii) 27 cm (iii) 9 cm (iv) $\frac{27}{2}\sqrt{2}$ cm (v) $9\sqrt{18}$ cm

36. In the given figure, $\triangle EGF$ is right angled at F. If $EF = 8$ cm and $\angle G = 30^\circ$, find EH



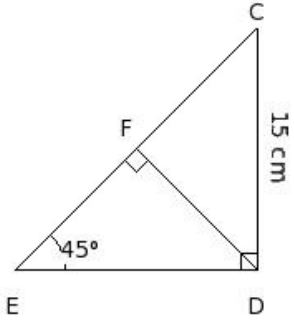
- (i) 3 cm (ii) 4 cm (iii) 7 cm (iv) 1 cm (v) 5 cm

37. In the given figure, $\triangle ACB$ is right angled at B. If $AB = 7$ cm and $\angle C = 30^\circ$, find CD



- (i) 21 cm (ii) $\frac{21}{2}$ cm (iii) $\frac{23}{2}$ cm (iv) $\frac{19}{2}$ cm (v) $\frac{21}{4}$ cm

38. In the given figure, $\triangle CED$ is right angled at D. If $CD = 15$ cm and $\angle E = 45^\circ$, find CE



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

Assignment Key

1) (v)	2) (v)	3) (iii)	4) (ii)	5) (ii)	6) (iv)
7) (ii)	8) (iii)	9) (iv)	10) (ii)	11) (ii)	12) (v)
13) (ii)	14) (ii)	15) (v)	16) (iv)	17) (iv)	18) (iii)
19) (iv)	20) (ii)	21) (iv)	22) (iii)	23) (iv)	24) (ii)
25) (v)	26) (iii)	27) (i)	28) (iii)	29) (iii)	30) (iv)
31) (ii)	32) (iii)	33) (iv)	34) (v)	35) (i)	36) (ii)
37) (ii)	38) (iii)				