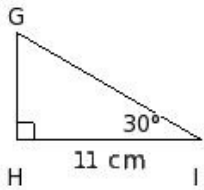


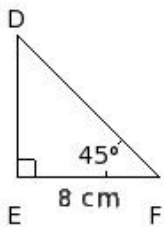


1. In the given figure, $\triangle GHI$ is right angled at H. If $HI = 11$ cm and $\angle I = 30^\circ$, find GH and GI



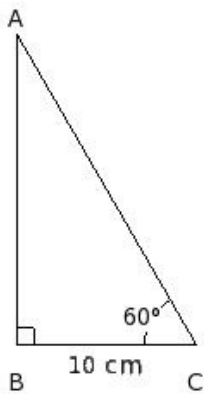
- (i) $\frac{11}{3}\sqrt{3}$ cm & 22 cm
- (ii) $\frac{11}{3}\sqrt{3}$ cm & 25 cm
- (iii) $\frac{11}{3}\sqrt{3}$ cm & $\frac{22}{3}\sqrt{3}$ cm
- (iv) $\frac{11}{3}\sqrt{3}$ cm & 25 cm
- (v) $\frac{11}{3}\sqrt{3}$ cm & $\frac{22}{3}\sqrt{3}$ cm

2. In the given figure, $\triangle DEF$ is right angled at E. If $EF = 8$ cm and $\angle F = 45^\circ$, find DE and DF



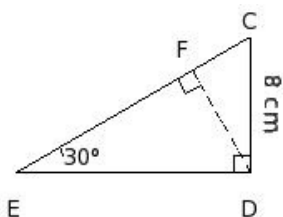
- (i) 9 cm & 18 cm
- (ii) 9 cm & $8\sqrt{2}$ cm
- (iii) 8 cm & $8\sqrt{2}$ cm
- (iv) 6 cm & 18 cm
- (v) 9 cm & 16 cm

3. In the given figure, $\triangle ABC$ is right angled at B. If $BC = 10$ cm and $\angle C = 60^\circ$, find AB and AC



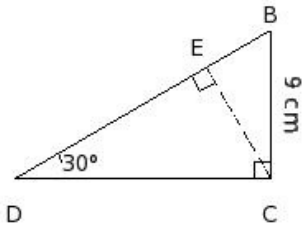
- (i) $10\sqrt{3}$ cm & 20 cm
- (ii) $10\sqrt{3}$ cm & 22 cm
- (iii) $10\sqrt{3}$ cm & 22 cm
- (iv) $10\sqrt{3}$ cm & 19 cm
- (v) $10\sqrt{3}$ cm & 20 cm

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



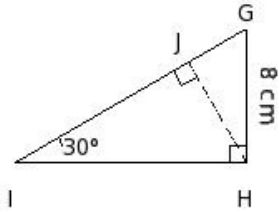
- (i) 17 cm
- (ii) 14 cm
- (iii) 18 cm
- (iv) 16 cm
- (v) 15 cm

5. In the given figure, $\triangle BDC$ is right angled at C. If $BC = 9$ cm and $\angle D = 30^\circ$, find CD



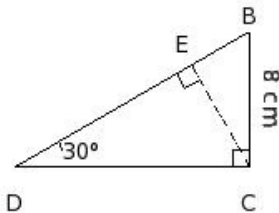
- (i) 27 cm (ii) $\frac{27}{2}\sqrt{2}$ cm (iii) $9\sqrt{18}$ cm (iv) $9\sqrt{3}$ cm (v) 9 cm

6. In the given figure, $\triangle GIH$ is right angled at H. If $GH = 8$ cm and $\angle I = 30^\circ$, find GJ



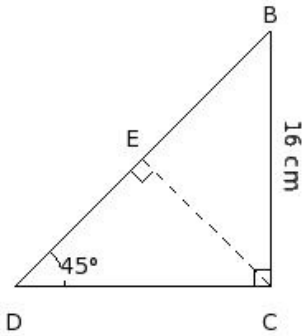
- (i) 2 cm (ii) 5 cm (iii) 7 cm (iv) 3 cm (v) 4 cm

7. In the given figure, $\triangle BDC$ is right angled at C. If $BC = 8$ cm and $\angle D = 30^\circ$, find DE



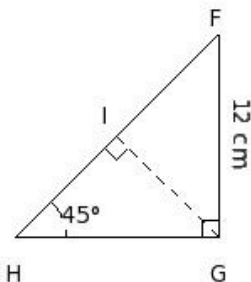
- (i) 14 cm (ii) 13 cm (iii) 11 cm (iv) 10 cm (v) 12 cm

8. In the given figure, $\triangle BDC$ is right angled at C. If $BC = 16$ cm and $\angle D = 45^\circ$, find BD



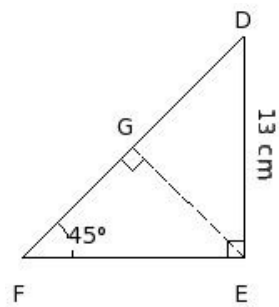
- (i) $32\sqrt{3}$ cm (ii) 16 cm (iii) $8\sqrt{12}$ cm (iv) 32 cm (v) $16\sqrt{2}$ cm

9. In the given figure, $\triangle FHG$ is right angled at G. If $FG = 12$ cm and $\angle H = 45^\circ$, find GH



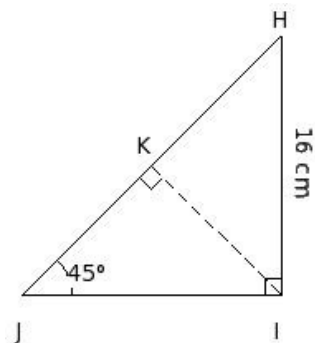
- (i) 11 cm (ii) 14 cm (iii) 13 cm (iv) 12 cm (v) 9 cm

10. In the given figure, $\triangle DFE$ is right angled at E. If $DE = 13$ cm and $\angle F = 45^\circ$, find DG



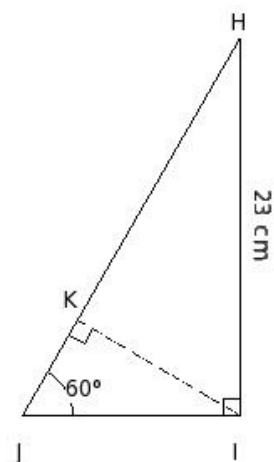
- (i) 13 cm (ii) $\frac{13}{4}\sqrt{12}$ cm (iii) $\frac{13}{2}$ cm (iv) $13\sqrt{3}$ cm (v) $\frac{13}{2}\sqrt{2}$ cm

11. In the given figure, $\triangle HJI$ is right angled at I. If $HI = 16$ cm and $\angle J = 45^\circ$, find JK



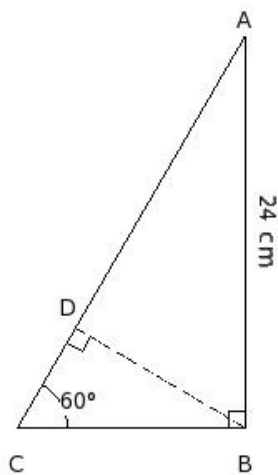
- (i) 16 cm (ii) $8\sqrt{2}$ cm (iii) $16\sqrt{3}$ cm (iv) 8 cm (v) $4\sqrt{12}$ cm

12. In the given figure, $\triangle HJI$ is right angled at I. If $HI = 23$ cm and $\angle J = 60^\circ$, find HJ



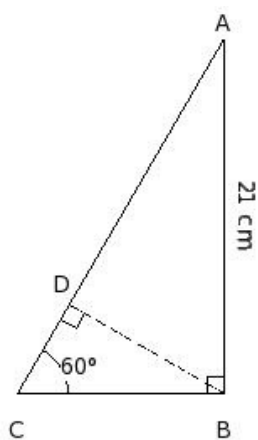
- (i) 46 cm (ii) $23\sqrt{2}$ cm (iii) $\frac{46}{3}$ cm (iv) $\frac{46}{3}\sqrt{3}$ cm (v) $\frac{46}{3}\sqrt{18}$ cm

13. In the given figure, $\triangle ACB$ is right angled at B. If $AB = 24$ cm and $\angle C = 60^\circ$, find BC



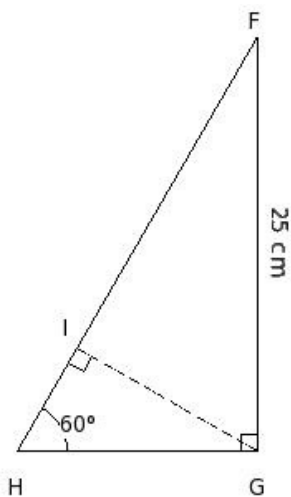
- (i) 8 cm (ii) $8\sqrt{3}$ cm (iii) $12\sqrt{2}$ cm (iv) $8\sqrt{18}$ cm (v) 24 cm

14. In the given figure, $\triangle ACB$ is right angled at B. If $AB = 21$ cm and $\angle C = 60^\circ$, find AD



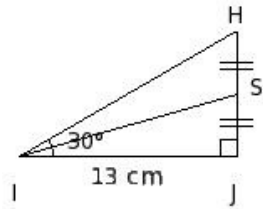
- (i) $\frac{63}{4}\sqrt{2}$ cm (ii) $\frac{21}{2}\sqrt{18}$ cm (iii) $\frac{21}{2}\sqrt{3}$ cm (iv) $\frac{21}{2}$ cm (v) $\frac{63}{2}$ cm

15. In the given figure, $\triangle FHG$ is right angled at G. If $FG = 25$ cm and $\angle H = 60^\circ$, find HI



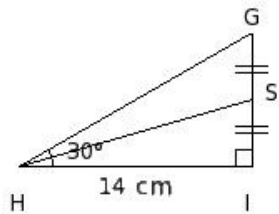
- (i) $\frac{25}{6}$ cm (ii) $\frac{25}{6}\sqrt{3}$ cm (iii) $\frac{25}{4}\sqrt{2}$ cm (iv) $\frac{25}{6}\sqrt{18}$ cm (v) $\frac{25}{2}$ cm

16. In the given figure, $\triangle HIJ$ is a right angle triangle with $\angle J = 90^\circ$ and $IJ = 13$ cm. S is the mid-point of HJ. Find SJ



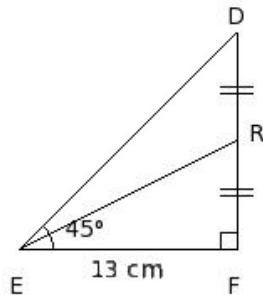
- (i) $\frac{13}{6}$ cm (ii) $\frac{13}{6}\sqrt{3}$ cm (iii) $\frac{13}{2}$ cm (iv) $\frac{13}{4}\sqrt{2}$ cm (v) $\frac{13}{6}\sqrt{18}$ cm

17. In the given figure, $\triangle GHI$ is a right angle triangle with $\angle I = 90^\circ$ and $HI = 14$ cm. S is the mid-point of GI. Find the length of the altitude from I to GH.



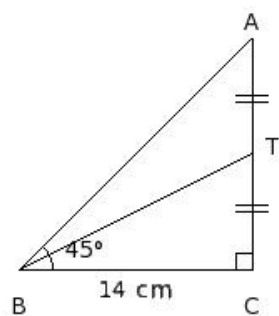
- (i) 7 cm (ii) 6 cm (iii) 10 cm (iv) 8 cm (v) 4 cm

18. In the given figure, $\triangle DEF$ is a right angle triangle with $\angle F = 90^\circ$ and $EF = 13$ cm. R is the mid-point of DF. Find RF



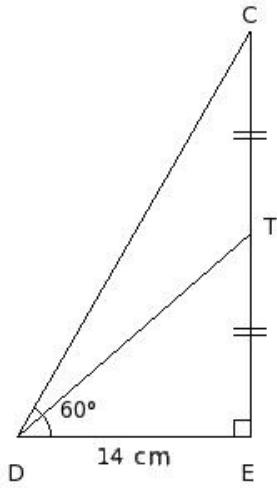
- (i) 7 cm (ii) $\frac{11}{2}$ cm (iii) $\frac{25}{4}$ cm (iv) $\frac{13}{2}$ cm (v) $\frac{15}{2}$ cm

19. In the given figure, $\triangle ABC$ is a right angle triangle with $\angle C = 90^\circ$ and $BC = 14$ cm. T is the mid-point of AC. Find the length of the altitude from C to AB.



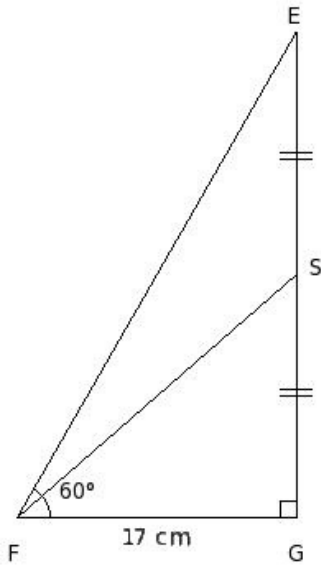
- (i) $14\sqrt{3}$ cm (ii) $7\sqrt{2}$ cm (iii) $\frac{7}{2}\sqrt{12}$ cm (iv) 7 cm (v) 14 cm

20. 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 TE



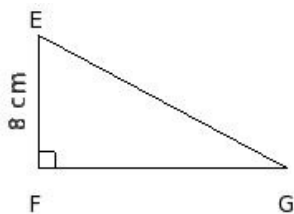
- (i) $7\sqrt{3}$ cm (ii) 21 cm (iii) $7\sqrt{18}$ cm (iv) $\frac{21}{2}\sqrt{2}$ cm (v) 7 cm

21. In the given figure, $\triangle EFG$ is a right angle triangle with $\angle G = 90^\circ$ and $FG = 17$ cm. S is the mid-point of EG. Find the length of the altitude from G to EF.



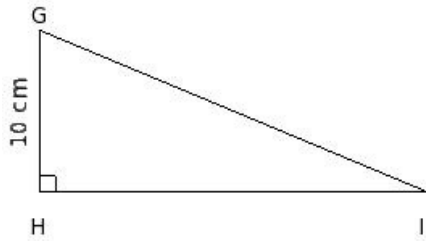
- (i) $\frac{51}{2}$ cm (ii) $\frac{17}{2}$ cm (iii) $\frac{17}{2}\sqrt{3}$ cm (iv) $\frac{51}{4}\sqrt{2}$ cm (v) $\frac{17}{2}\sqrt{18}$ cm

22. In the given figure, if $EG - FG = 2$ cm, and $EF = 8$ cm, find $\sin E$



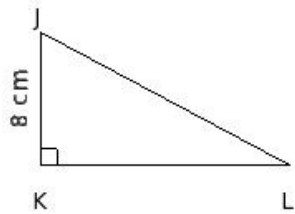
- (i) 1 (ii) $\frac{15}{19}$ (iii) $\frac{15}{17}$ (iv) $\frac{13}{17}$

23. In the given figure, if $GI - HI = 2$ cm, and $GH = 10$ cm, find $\cos G$



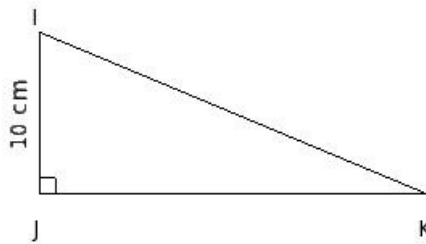
- (i) $\frac{1}{3}$ (ii) $\frac{3}{13}$ (iii) $\frac{5}{13}$ (iv) $\frac{5}{11}$ (v) $\frac{7}{13}$

24. In the given figure, if $JL - KL = 2$ cm, and $JK = 8$ cm, find $\tan J$



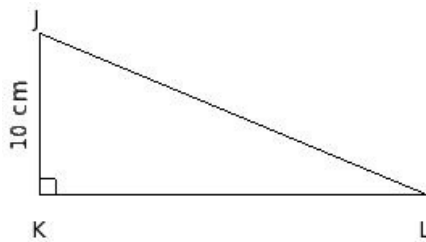
- (i) $\frac{15}{8}$ (ii) $\frac{5}{2}$ (iii) $\frac{17}{8}$ (iv) $\frac{3}{2}$ (v) $\frac{13}{8}$

25. In the given figure, if $IK + JK = 50$ cm, and $IJ = 10$ cm, find $\sin I$



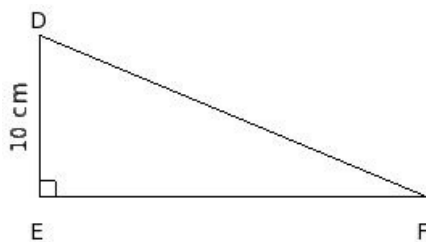
- (i) $\frac{14}{13}$ (ii) $\frac{10}{13}$ (iii) $\frac{12}{11}$ (iv) $\frac{12}{13}$ (v) $\frac{4}{5}$

26. In the given figure, if $JL + KL = 50$ cm, and $JK = 10$ cm, find $\cos J$



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

27. In the given figure, if $DF + EF = 50$ cm, and $DE = 10$ cm, find $\tan D$



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

Assignment Key

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