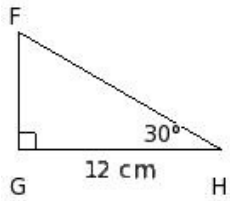


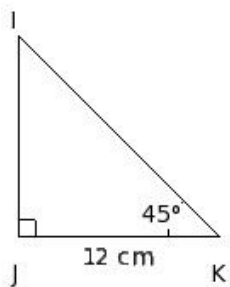


1. In the given figure,  $\triangle FGH$  is right angled at G. If  $GH = 12$  cm and  $\angle H = 30^\circ$ , find FG and FH



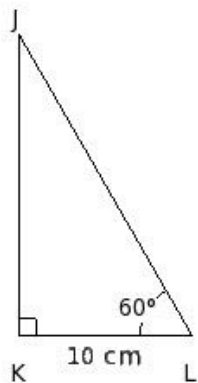
- (i)  $4\sqrt{3}$  cm &  $8\sqrt{3}$  cm (ii)  $4\sqrt{3}$  cm & 26 cm (iii)  $4\sqrt{3}$  cm & 24 cm (iv)  $4\sqrt{3}$  cm &  $8\sqrt{3}$  cm (v) 4 cm & 26 cm

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



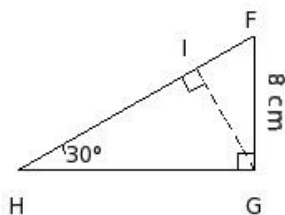
- (i) 13 cm &  $12\sqrt{2}$  cm (ii) 13 cm & 24 cm (iii) 13 cm & 26 cm (iv) 12 cm &  $12\sqrt{2}$  cm (v) 11 cm & 26 cm

3. In the given figure,  $\triangle JKL$  is right angled at K. If  $KL = 10$  cm and  $\angle L = 60^\circ$ , find JK and JL



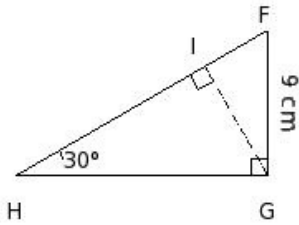
- (i)  $10\sqrt{3}$  cm & 20 cm (ii)  $10\sqrt{3}$  cm & 20 cm (iii) 10 cm & 22 cm (iv)  $10\sqrt{3}$  cm & 22 cm (v)  $10\sqrt{3}$  cm & 19 cm

4. In the given figure,  $\triangle FGH$  is right angled at G. If  $FG = 8$  cm and  $\angle H = 30^\circ$ , find FH



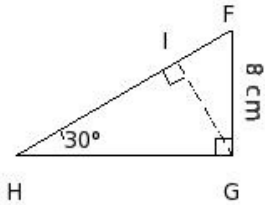
- (i) 18 cm (ii) 14 cm (iii) 17 cm (iv) 15 cm (v) 16 cm

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



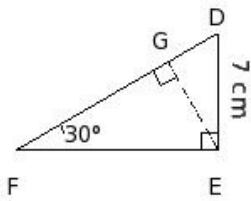
- (i) 27 cm (ii)  $9\sqrt{18}$  cm (iii) 9 cm (iv)  $\frac{27}{2}\sqrt{2}$  cm (v)  $9\sqrt{3}$  cm

6. In the given figure,  $\triangle FHG$  is right angled at G. If  $FG = 8$  cm and  $\angle H = 30^\circ$ , find FI



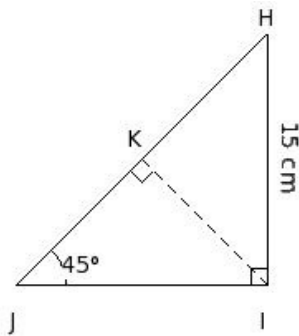
- (i) 3 cm (ii) 5 cm (iii) 1 cm (iv) 7 cm (v) 4 cm

7. In the given figure,  $\triangle DFE$  is right angled at E. If  $DE = 7$  cm and  $\angle F = 30^\circ$ , find FG



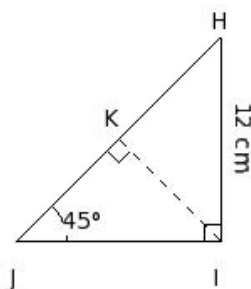
- (i)  $\frac{23}{2}$  cm (ii)  $\frac{19}{2}$  cm (iii) 21 cm (iv)  $\frac{21}{2}$  cm (v)  $\frac{21}{4}$  cm

8. In the given figure,  $\triangle HJI$  is right angled at I. If  $HI = 15$  cm and  $\angle J = 45^\circ$ , find HJ



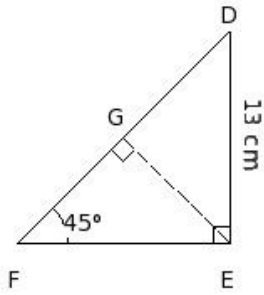
- (i)  $30\sqrt{3}$  cm (ii)  $\frac{15}{2}\sqrt{12}$  cm (iii) 15 cm (iv)  $15\sqrt{2}$  cm (v) 30 cm

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



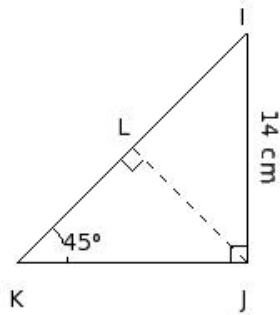
- (i) 11 cm (ii) 15 cm (iii) 10 cm (iv) 12 cm (v) 13 cm

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



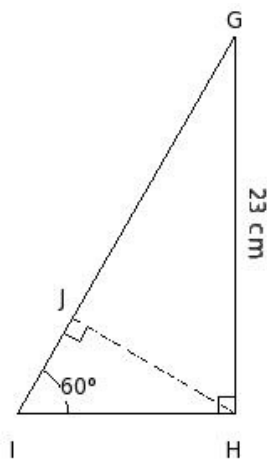
- (i)  $\frac{13}{2}\sqrt{2}$  cm (ii)  $\frac{13}{4}\sqrt{12}$  cm (iii)  $\frac{13}{2}$  cm (iv) 13 cm (v)  $13\sqrt{3}$  cm

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



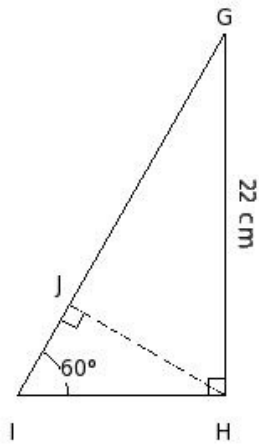
- (i)  $14\sqrt{3}$  cm (ii) 7 cm (iii)  $\frac{7}{2}\sqrt{12}$  cm (iv) 14 cm (v)  $7\sqrt{2}$  cm

12. In the given figure,  $\triangle GIH$  is right angled at H. If  $GH = 23$  cm and  $\angle I = 60^\circ$ , find GI



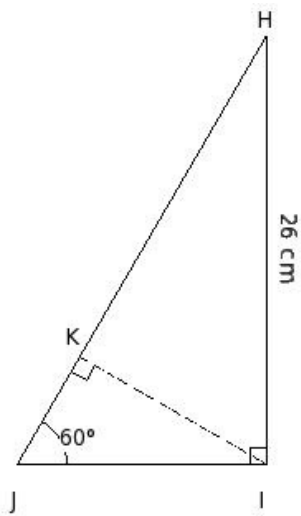
- (i)  $23\sqrt{2}$  cm (ii) 46 cm (iii)  $\frac{46}{3}\sqrt{18}$  cm (iv)  $\frac{46}{3}\sqrt{3}$  cm (v)  $\frac{46}{3}$  cm

13. In the given figure,  $\triangle GIH$  is right angled at H. If  $GH = 22$  cm and  $\angle I = 60^\circ$ , find HI



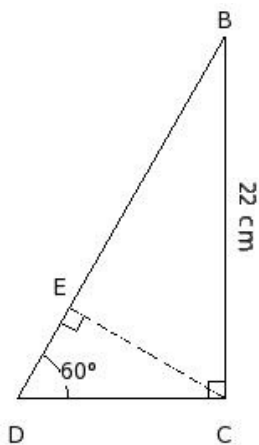
- (i)  $\frac{22}{3}$  cm (ii)  $\frac{22}{3}\sqrt{3}$  cm (iii) 22 cm (iv)  $\frac{22}{3}\sqrt{18}$  cm (v)  $11\sqrt{2}$  cm

14. In the given figure,  $\triangle HJI$  is right angled at I. If  $HI = 26$  cm and  $\angle J = 60^\circ$ , find HK



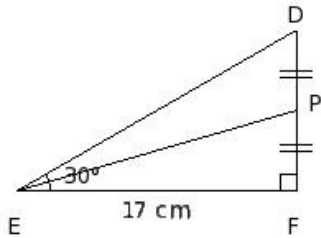
- (i) 39 cm (ii)  $13\sqrt{18}$  cm (iii) 13 cm (iv)  $13\sqrt{3}$  cm (v)  $\frac{39}{2}\sqrt{2}$  cm

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



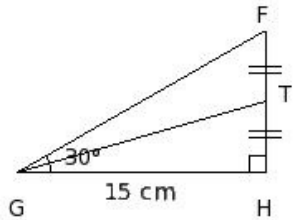
- (i)  $\frac{11}{3}\sqrt{3}$  cm (ii)  $\frac{11}{2}\sqrt{2}$  cm (iii)  $\frac{11}{3}$  cm (iv) 11 cm (v)  $\frac{11}{3}\sqrt{18}$  cm

16. In the given figure,  $\triangle DEF$  is a right angle triangle with  $\angle F = 90^\circ$  and  $EF = 17$  cm. P is the mid-point of DF. Find PF



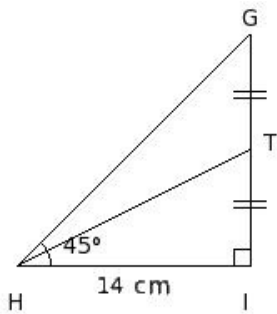
- (i)  $\frac{17}{6}$  cm (ii)  $\frac{17}{2}$  cm (iii)  $\frac{17}{4}\sqrt{2}$  cm (iv)  $\frac{17}{6}\sqrt{18}$  cm (v)  $\frac{17}{6}\sqrt{3}$  cm

17. In the given figure,  $\triangle FGH$  is a right angle triangle with  $\angle H = 90^\circ$  and  $GH = 15$  cm. T is the mid-point of FH. Find the length of the altitude from H to FG.



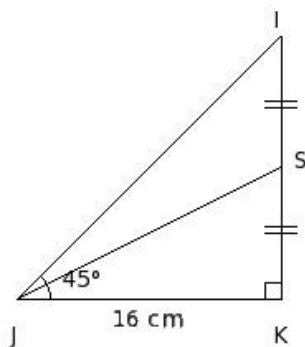
- (i)  $\frac{29}{4}$  cm (ii)  $\frac{17}{2}$  cm (iii)  $\frac{15}{2}$  cm (iv) 8 cm (v)  $\frac{13}{2}$  cm

18. In the given figure,  $\triangle GHI$  is a right angle triangle with  $\angle I = 90^\circ$  and  $HI = 14$  cm. T is the mid-point of GI. Find TI



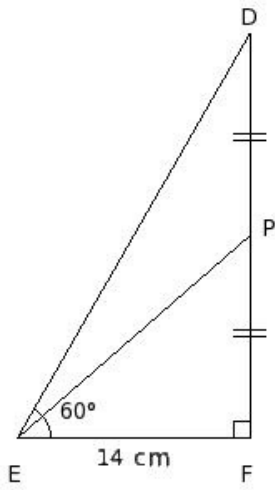
- (i) 7 cm (ii) 8 cm (iii) 6 cm (iv) 4 cm (v) 10 cm

19. In the given figure,  $\triangle IJK$  is a right angle triangle with  $\angle K = 90^\circ$  and  $JK = 16$  cm. S is the mid-point of IK. Find the length of the altitude from K to IJ.



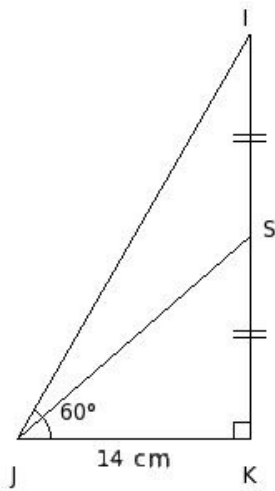
- (i)  $16\sqrt{3}$  cm (ii) 16 cm (iii)  $4\sqrt{12}$  cm (iv)  $8\sqrt{2}$  cm (v) 8 cm

20. In the given figure,  $\triangle DEF$  is a right angle triangle with  $\angle F = 90^\circ$  and  $EF = 14$  cm. P is the mid-point of DF. Find PF



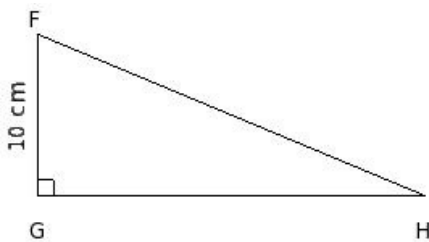
- (i)  $\frac{21}{2}\sqrt{2}$  cm (ii)  $7\sqrt{18}$  cm (iii) 21 cm (iv)  $7\sqrt{3}$  cm (v) 7 cm

21. In the given figure,  $\triangle IJK$  is a right angle triangle with  $\angle K = 90^\circ$  and  $JK = 14$  cm. S is the mid-point of IK. Find the length of the altitude from K to IJ.



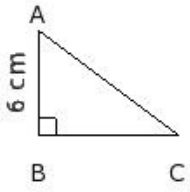
- (i) 7 cm (ii) 21 cm (iii)  $\frac{21}{2}\sqrt{2}$  cm (iv)  $7\sqrt{18}$  cm (v)  $7\sqrt{3}$  cm

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



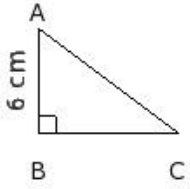
- (i)  $\frac{12}{11}$  (ii)  $\frac{10}{13}$  (iii)  $\frac{12}{13}$  (iv)  $\frac{4}{5}$  (v)  $\frac{14}{13}$

23. In the given figure, if  $AC - BC = 2$  cm, and  $AB = 6$  cm, find  $\cos A$



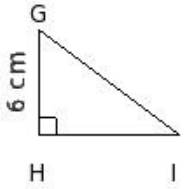
- (i)  $\frac{3}{7}$  (ii) 1 (iii)  $\frac{1}{5}$  (iv)  $\frac{3}{5}$

24. In the given figure, if  $AC - BC = 2$  cm, and  $AB = 6$  cm, find  $\tan A$



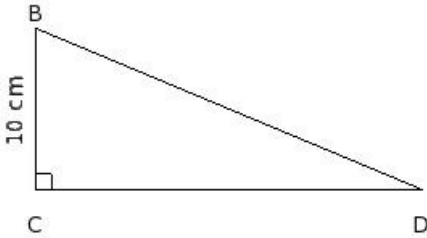
- (i)  $\frac{4}{5}$  (ii)  $\frac{2}{3}$  (iii) 2 (iv) 4 (v)  $\frac{4}{3}$

25. In the given figure, if  $GI + HI = 18$  cm, and  $GH = 6$  cm, find  $\sin G$



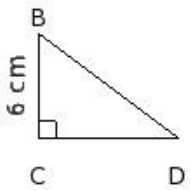
- (i)  $\frac{4}{7}$  (ii)  $\frac{6}{5}$  (iii)  $\frac{4}{5}$  (iv)  $\frac{2}{5}$  (v)  $\frac{4}{3}$

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



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

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



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

## Assignment Key

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