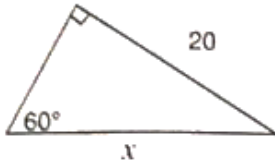


Board – ICSE

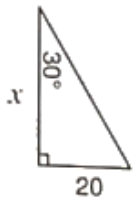
Class – 9th

Topic – Solution of Right Triangles

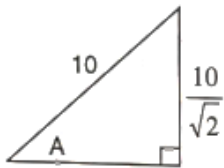
1. Find 'x', if :



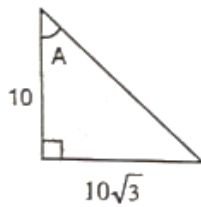
2. Find 'x', if :



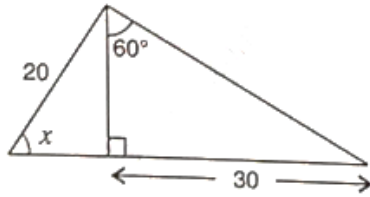
3. Find angle 'A' if :



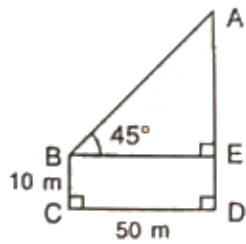
4. Find angle 'A' if :



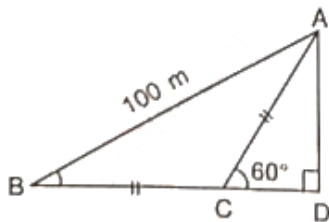
5. Find angle 'x' if:



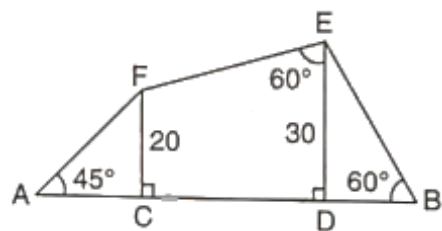
6. Find AD, if:



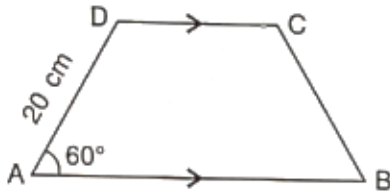
7. Find AD, if:



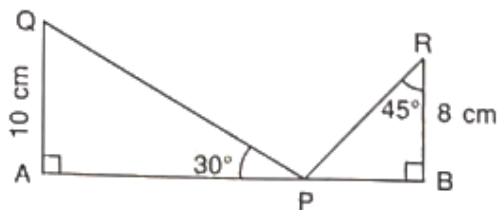
8. Find AB



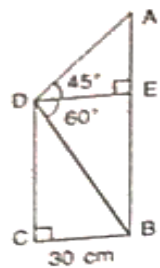
9. In trapezium ABCD, as shown, $AB \parallel DC$, $AD = DC = BC = 20$ cm and $\angle A = 60^\circ$. Find: length of AB



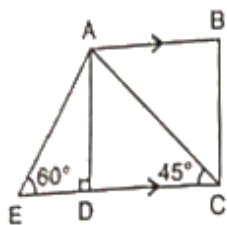
10. Use the information given to find the length of AB.



11. Find the length of AB.

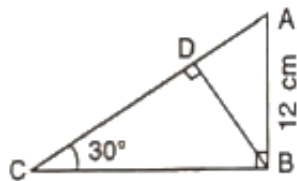


12. In the given figure, AB and EC are parallel to each other. Sides AD and BC are 2 cm each and are perpendicular to AB.

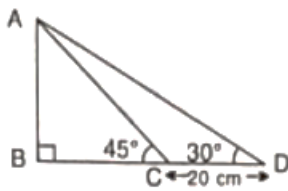


Given that $\angle AED = 60^\circ$ and $\angle ACD = 45^\circ$. Calculate : AB.

13. Find BC



14. Find AB and BC if :



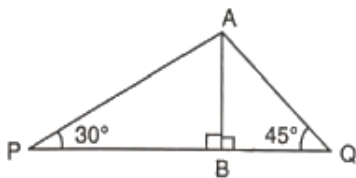
15. In right-angled triangle ABC; $\angle B = 90^\circ$. Find the magnitude of angle A, if : AB is $\sqrt{3}$ times of BC.

16. In right-angled triangle ABC; $\angle B = 90^\circ$. Find the magnitude of angle A, if : BC is $\sqrt{3}$ times of AB.

17. A ladder is placed against a vertical tower. If the ladder makes an angle of 30° with the ground and reaches upto a height of 15 m of the tower; find length of the ladder.

18. A kite is attached to a 100 m long string. Find the greatest height reached by the kite when its string makes an angle of 60° with the level ground.

19. Find PQ, if $AB = 150$ m, $\angle P = 30^\circ$ and $\angle Q = 45^\circ$.



20. Find PQ, if $AB = 150$ m, $\angle P = 30^\circ$ and $\angle Q = 45^\circ$.

