

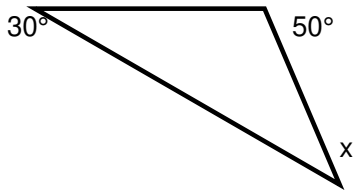
ANGLES IN TRIANGLES

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MAIN QUESTIONS

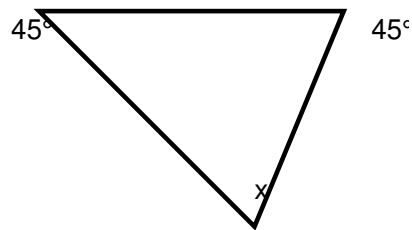


1. In a triangle, two angles are 30° and 50° . Find the missing angle.



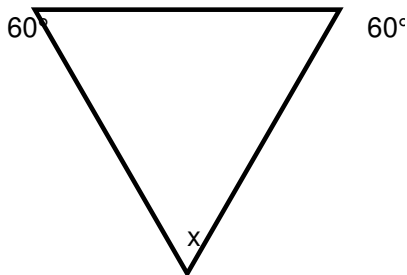
100°

2. In a triangle, two angles are 45° and 45° . Find the missing angle.



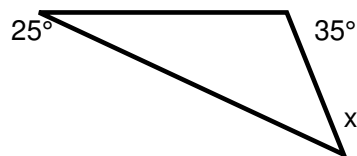
90°

3. In a triangle, two angles are 60° and 60° . Find the missing angle.



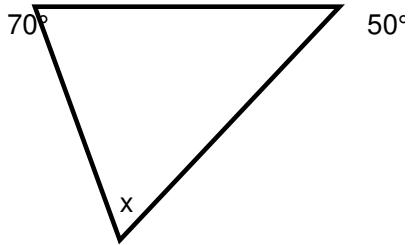
60°

4. In a triangle, two angles are 25° and 35° . Find the missing angle.



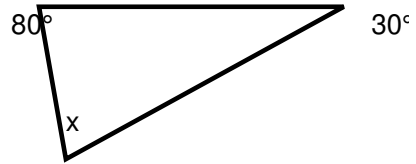
120°

5. In a triangle, two angles are 70° and 50° . Find the missing angle.



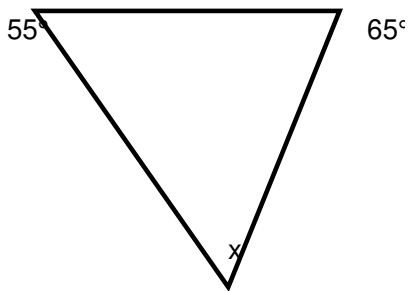
60°

6. In a triangle, two angles are 80° and 30° . Find the missing angle.



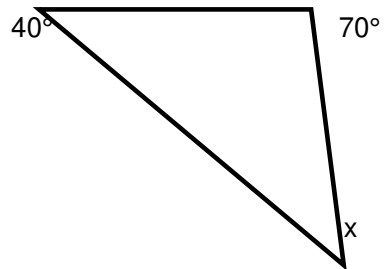
70°

7. In a triangle, two angles are 55° and 65° . Find the missing angle.



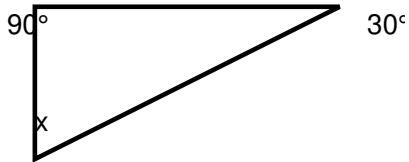
60°

8. In a triangle, two angles are 40° and 70° . Find the missing angle.



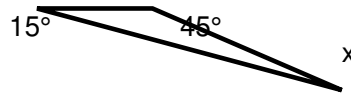
70°

9. In a triangle, two angles are 90° and 30° . Find the missing angle.



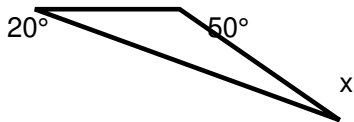
60°

10. In a triangle, two angles are 15° and 45° . Find the missing angle.



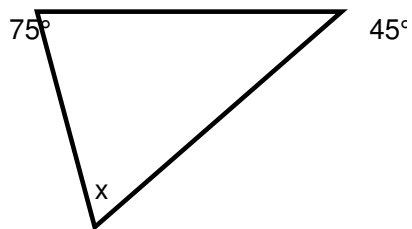
120°

11. In a triangle, two angles are 20° and 50° . Find the missing angle.



110°

12. In a triangle, two angles are 75° and 45° . Find the missing angle.



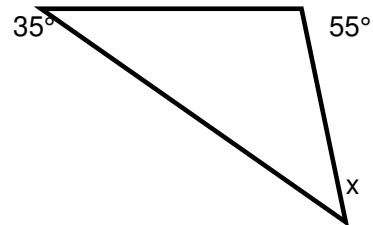
60°

13. In a triangle, two angles are 10° and 20° . Find the missing angle.



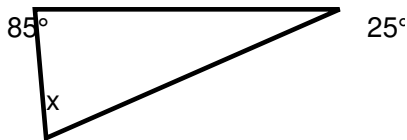
150°

14. In a triangle, two angles are 35° and 55° . Find the missing angle.



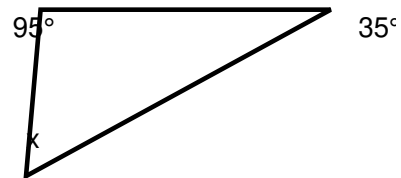
90°

15. In a triangle, two angles are 85° and 25° . Find the missing angle.



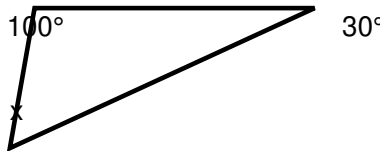
70°

16. In a triangle, two angles are 95° and 35° . Find the missing angle.



50°

17. In a triangle, two angles are 100° and 30° . Find the missing angle.



50°

18. In a triangle, two angles are 110° and 20° . Find the missing angle.



50°

19. In a triangle, two angles are 120° and 10° . Find the missing angle.



50°

20. In a triangle, two angles are 130° and 20° . Find the missing angle.



30°

21. In a triangle, two angles are 140° and 10° . Find the missing angle.



30°

22. In a triangle, two angles are 150° and 10° . Find the missing angle.



20°

23. In a triangle, two angles are 160° and 10° . Find the missing angle.



10°

24. In a triangle, two angles are 170° and 5° . Find the missing angle.



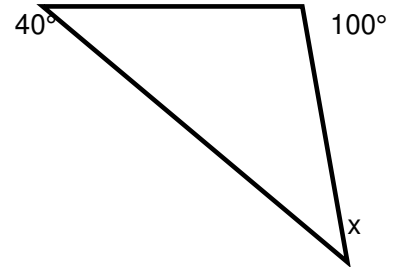
5°

25. In a triangle, two angles are 175° and 2° . Find the missing angle.



3°

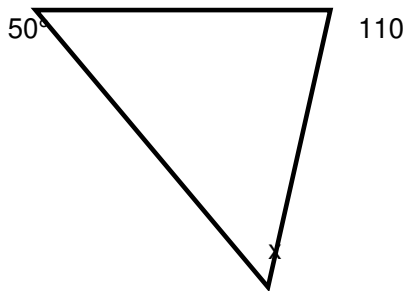
26. In a triangle, two angles are 40° and 100° . Find the missing



angle.

40°

27. In a triangle, two angles are 50° and 110° . Find the missing



angle.

20°

28. In a triangle, two angles are 60° and 120° . Find the missing angle.

0°

29. In a triangle, two angles are 70° and 130° . Find the missing angle.

-20°

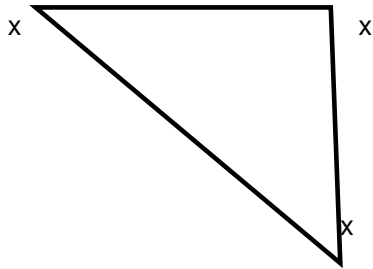
30. In a triangle, two angles are 80° and 140° . Find the missing angle.

-40°

MASTER QUESTIONS



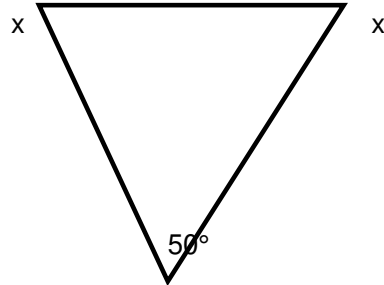
M1. A triangle has angles in the ratio 2:3:4. Find the measure of each



angle.

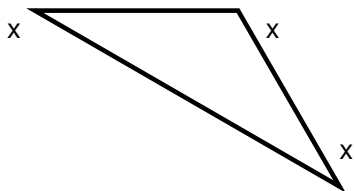
$40^\circ, 60^\circ, 80^\circ$

M2. In an isosceles triangle, the vertex angle is 50° . Find the base angles.



$65^\circ, 65^\circ$

M3. In a right-angled triangle, one acute angle is twice the other. Find the angles.

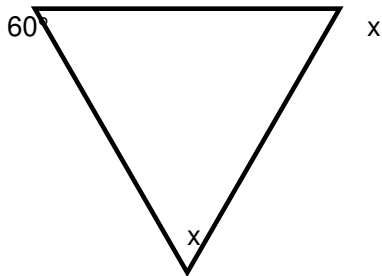


$30^\circ, 60^\circ, 90^\circ$

M4. A triangle has angles of x , $2x$, and $3x$. Find the value of x .

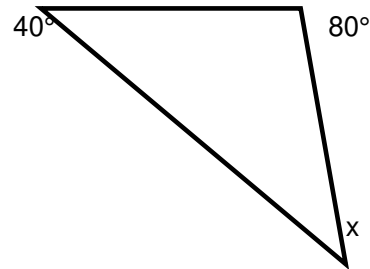
30°

- M5. In a triangle, one angle is 60° and the other two angles are equal. Find the measure of the equal angles.



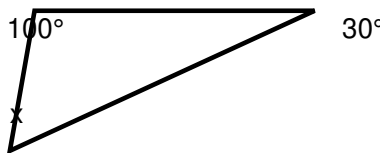
$60^\circ, 60^\circ$

- M6. A triangle has angles of 40° and 80° . Find the third angle.



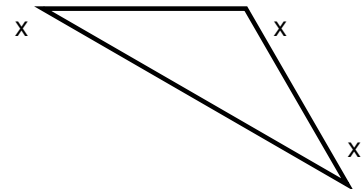
60°

- M7. In a triangle, the largest angle is 100° and the smallest angle is 30° . Find the third angle.



50°

- M8. A triangle has angles in the ratio 1:2:3. Find the measure of each



angle.

$30^\circ, 60^\circ, 90^\circ$

- M9. In a triangle, one angle is 70° and the other two angles differ

- M10. A triangle has angles of 50° , 60° , and 70° . Verify if it is a valid triangle.

Yes, the angles sum to 180°