

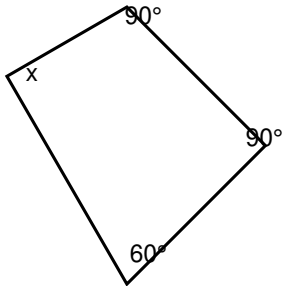
MISSING ANGLES IN QUADRILATERALS

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MAIN QUESTIONS

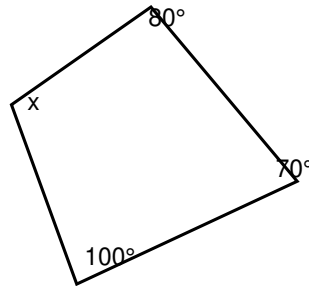


1. A quadrilateral has angles 90° , 90° , and 60° . Find the missing angle.



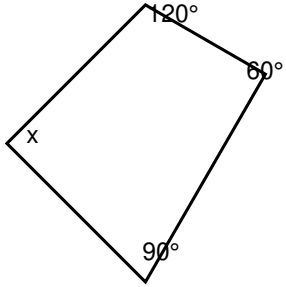
120°

2. A quadrilateral has angles 80° , 70° , and 100° . Find the missing angle.



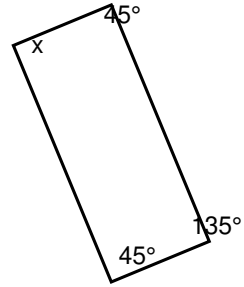
110°

3. A quadrilateral has angles 120° , 60° , and 90° . Find the missing angle.



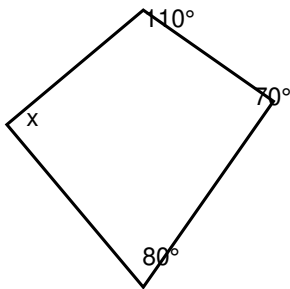
90°

4. A quadrilateral has angles 45° , 135° , and 45° . Find the missing angle.



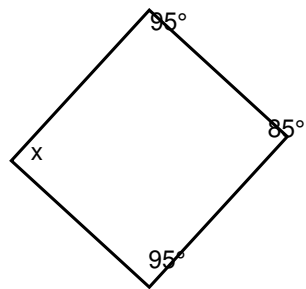
135°

5. A quadrilateral has angles 110° , 70° , and 80° . Find the missing angle.



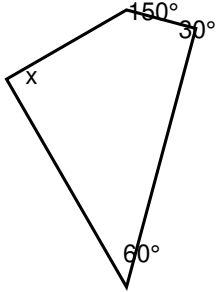
100°

6. A quadrilateral has angles 95° , 85° , and 95° . Find the missing angle.



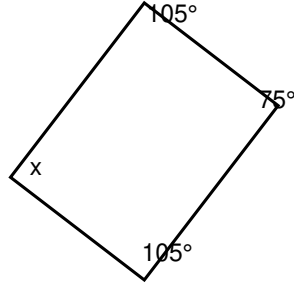
85°

7. A quadrilateral has angles 150° , 30° , and 60° . Find the missing angle.



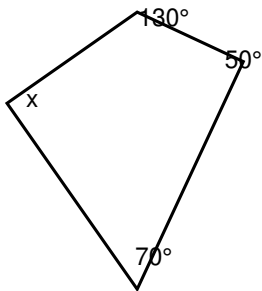
120°

8. A quadrilateral has angles 105° , 75° , and 105° . Find the missing angle.



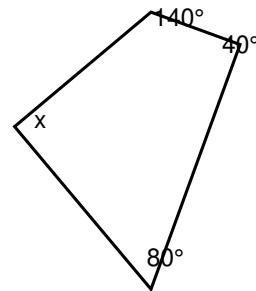
75°

9. A quadrilateral has angles 130° , 50° , and 70° . Find the missing angle.



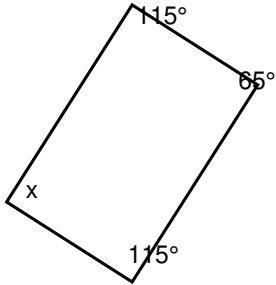
110°

10. A quadrilateral has angles 140° , 40° , and 80° . Find the missing angle.



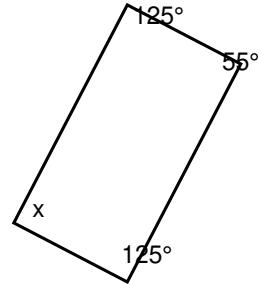
100°

11. A quadrilateral has angles 115° , 65° , and 115° . Find the missing angle.



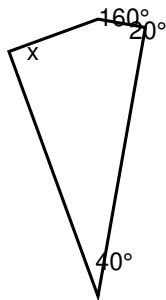
65°

12. A quadrilateral has angles 125° , 55° , and 125° . Find the missing angle.



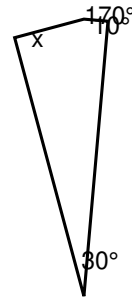
55°

13. A quadrilateral has angles 160° , 20° , and 40° . Find the missing angle.



140°

14. A quadrilateral has angles 170° , 10° , and 30° . Find the missing angle.



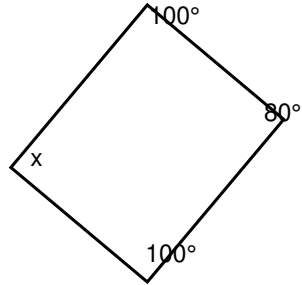
150°

15. A quadrilateral has angles 175° , 5° , and 10° . Find the missing angle.



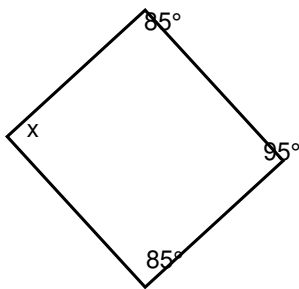
170°

16. A quadrilateral has angles 100° , 80° , and 100° . Find the missing angle.



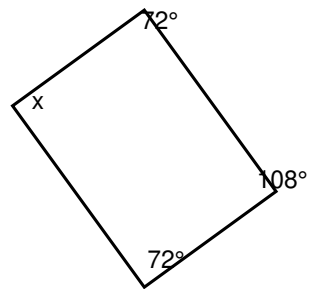
80°

17. A quadrilateral has angles 85° , 95° , and 85° . Find the missing angle.



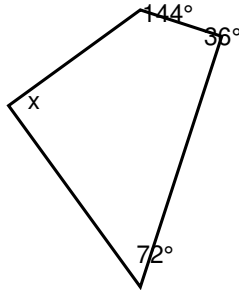
95°

18. A quadrilateral has angles 72° , 108° , and 72° . Find the missing angle.



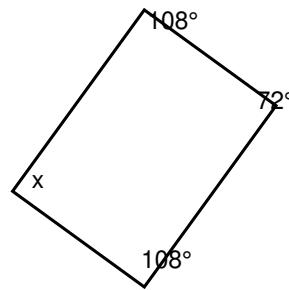
108°

19. A quadrilateral has angles 144° , 36° , and 72° . Find the missing angle.



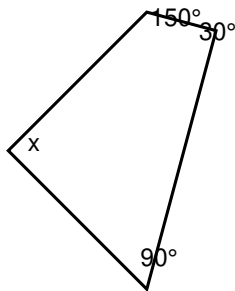
108°

20. A quadrilateral has angles 108° , 72° , and 108° . Find the missing angle.



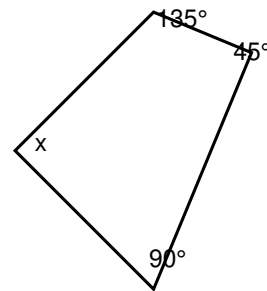
72°

21. A quadrilateral has angles 150° , 30° , and 90° . Find the missing angle.



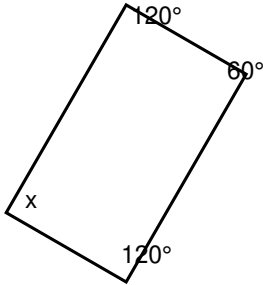
90°

22. A quadrilateral has angles 135° , 45° , and 90° . Find the missing angle.



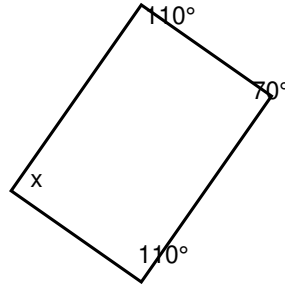
90°

23. A quadrilateral has angles 120° , 60° , and 120° . Find the missing angle.



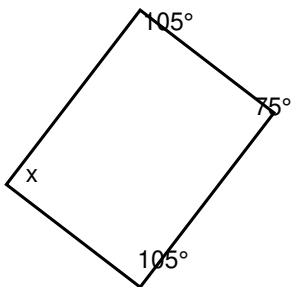
60°

24. A quadrilateral has angles 110° , 70° , and 110° . Find the missing angle.



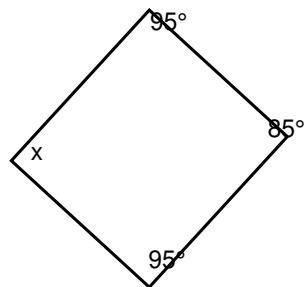
70°

25. A quadrilateral has angles 105° , 75° , and 105° . Find the missing angle.



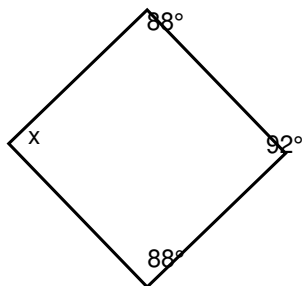
75°

26. A quadrilateral has angles 95° , 85° , and 95° . Find the missing angle.



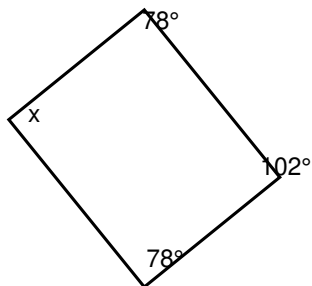
85°

27. A quadrilateral has angles 88° , 92° , and 88° . Find the missing angle.



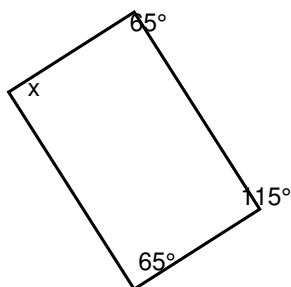
92°

28. A quadrilateral has angles 78° , 102° , and 78° . Find the missing angle.



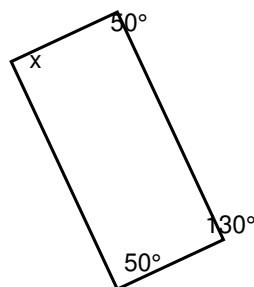
102°

29. A quadrilateral has angles 65° , 115° , and 65° . Find the missing angle.



115°

30. A quadrilateral has angles 50° , 130° , and 50° . Find the missing angle.



130°

MASTER QUESTIONS



M1. A quadrilateral has three angles in the ratio 2:3:4. The fourth angle is 90° . Find the measures of the other three angles.

The angles are 60° , 90° , and 120°

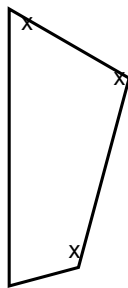
M2. In a quadrilateral, one angle is twice the smallest angle, another angle is three times the smallest angle, and the fourth angle is 100° . Find all four angles.

The angles are 40° , 80° , 120° , and 100°

M3. A quadrilateral has two right angles. The third angle is 30° more than the fourth angle. Find the measures of the third and fourth angles.

M4. Three angles of a quadrilateral are equal and the fourth angle is 120° . Find the measure of each of the equal angles.

Each equal angle is 80°

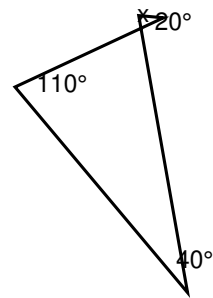


The angles are 120° and 90°

M5. In a quadrilateral, the angles are in the ratio 1:2:3:4. Find the measure of each angle.

The angles are 36° , 72° , 108° , and 144°

M6. A quadrilateral has one angle that is 20° less than twice the smallest angle, another angle that is 40° more than the smallest angle, and a fourth angle of 110° . Find all four angles.

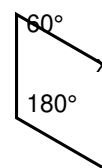


The angles are 50° , 80° , 90° , and 110°

M7. Three angles of a quadrilateral are in the ratio 3:5:7 and the fourth angle is 60° . Find the measures of the other three angles.

The angles are 60° , 100° , and 140°

M8. In a quadrilateral, the sum of the first two angles is 180° , the third angle is twice the fourth angle, and the fourth angle is 60° . Find all four angles.



The angles are 120° , 60° , 120° , and 60°

M9. A quadrilateral has two angles that are complementary and the

M10. In a quadrilateral, the first angle is equal to the second angle,