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7th Grade Angles Worksheets

1. Write the complements of the following angles.

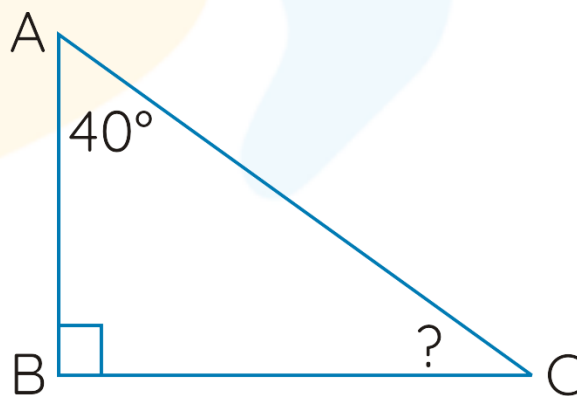
- i) 20°
- ii) 60°
- iii) 5°
- iv) 17°

2. Write the supplements of the following angles.

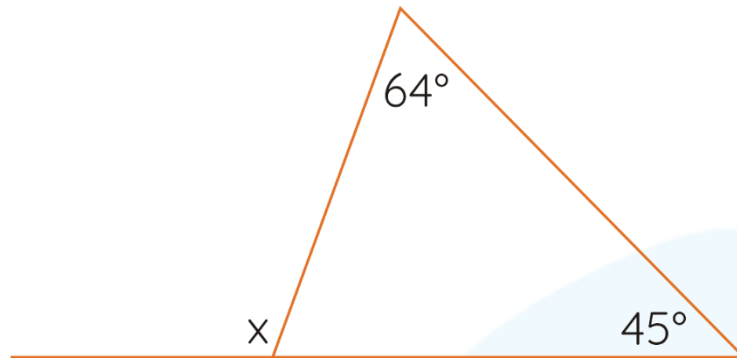
- i) 9°
- ii) 30°
- iii) 135°
- iv) 178°

3. Write a pair of complementary angles such that both angles are equal.

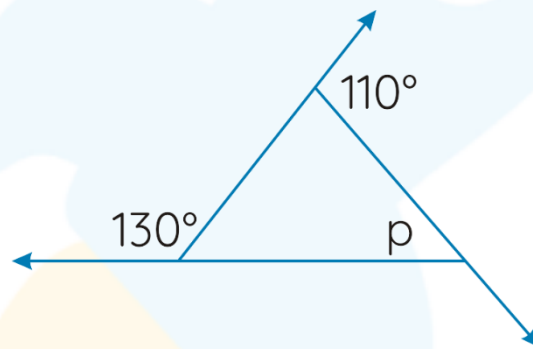
4. In the figure given below explain why the missing angle will measure 50° .



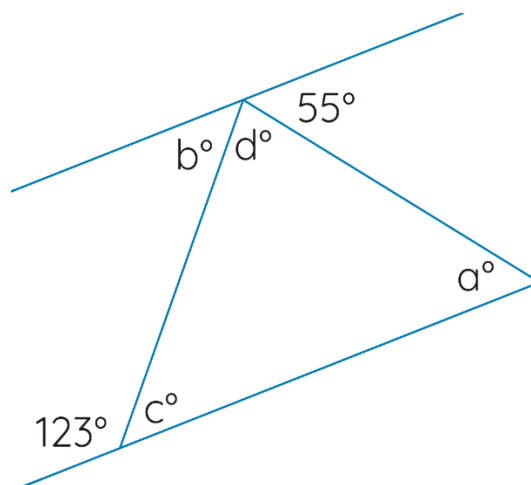
5. What is the relationship between the given angles and angle x .



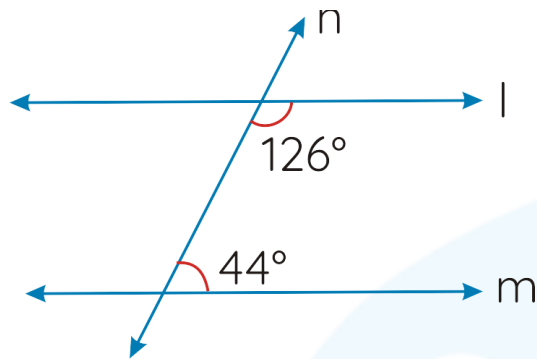
6. Find the value of p in the given figure.



7. Find the measure of the angles a and c so that the given lines would be parallel.



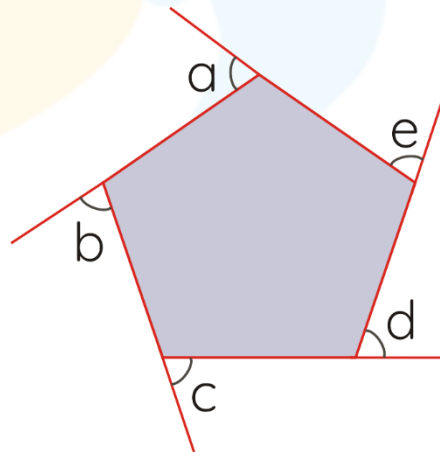
8. Check whether the given lines are parallel or not.



9. Fill in the blanks.

- i) The exterior angles of a triangle always add up to _____.
- ii) The interior angles of a triangle always add up to _____.
- iii) Each internal angle of a regular quadrilateral is _____.
- iv) Sum of all the exterior angles of an irregular hexagon is _____.

10. Given figure is a regular polygon. Find out the measure of its exterior angles.



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ANSWERS

1. i) $20^\circ - 70^\circ$ ii) $60^\circ - 30^\circ$ iii) $5^\circ - 85^\circ$ iv) $17^\circ - 73^\circ$	6. $p = 60^\circ$
2. i) $9^\circ - 171^\circ$ ii) $30^\circ - 160^\circ$ iii) $135^\circ - 45^\circ$ iv) $178^\circ - 2^\circ$	7. $a = 55^\circ$ $c = 57^\circ$
3. Yes, 45° and 45° are two equal complementary angles.	8. The lines l and m are not parallel.
4. The sum of interior angles of a triangle is 180° .	9. i) The exterior angles of a triangle always add up to 180° . ii) The interior angles of a triangle always add up to 180° . iii) Each internal angle of a regular quadrilateral is 90° . iv) Sum of all the exterior angles of an irregular hexagon is 360° .
5. Using the exterior angle theorem, the sum of the given angles is equal to x.	10. Each exterior angle = 72°

FUN FACT

1. When a set of parallel lines is cut by a transversal, eight angles are formed with special relationships among them.
2. All the exterior angles in a polygon add up to 360° .
3. Angle of exactly 360° is called a complete angle.
4. Angle greater than 180° is called a reflex angle.

