

UNIT 9

Introduction to Geometry

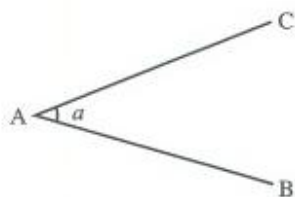
Revision Notes

1. Angles can be classified as follows:
 - (a) **Acute angles** are angles smaller than 90° .
 - (b) **Right angles** are angles exactly equal to 90° .
 - (c) **Obtuse angles** are angles between 90° and 180° .
 - (d) **Reflex angles** are angles between 180° and 360° .
2.
 - (a) The sum of **adjacent angles on a straight line** is 180° . (adj. \angle s on a st. line)
 - (b) The sum of **angles at a point** is 360° . (\angle s at a pt.)
3. Angles relating to straight lines and parallel lines.
 - (a) **Vertically opposite angles** are equal.
(vert. opp. \angle s)
 - (b) **Alternate angles** within 2 parallel lines are equal
(alt \angle s, // lines)
 - (c) **Corresponding angles** within 2 parallel lines are equal
(corr. \angle s, // lines)
 - (d) **Interior angles** within 2 parallel lines are supplementary.
(int. \angle s, // lines)

Revision Exercise 9

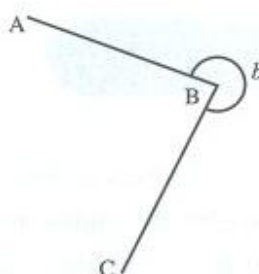
1. Name the marked angles using the capital letters given.

(a)



$\angle a =$ _____

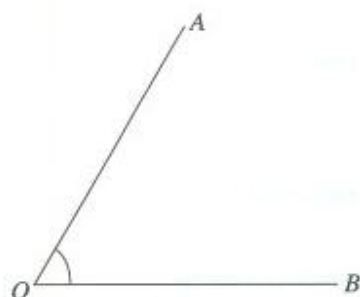
(b)



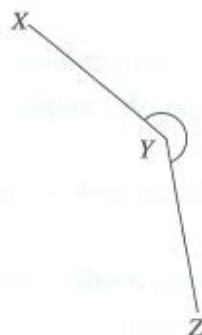
$\angle b =$ _____

2. Measure the marked angles.

(a)



(b)



3. Use a protractor to draw the following angles.

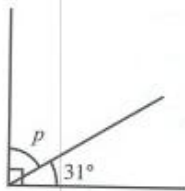
(a) $\angle CDE = 46^\circ$

(b) $\angle g = 136^\circ$

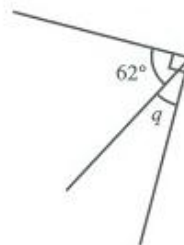
4. $\angle XYZ = 90^\circ$. Draw and label $\angle XYZ$.

5. Find the unknown angles in each of the following figures.

(a)

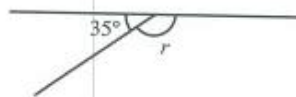


(b)

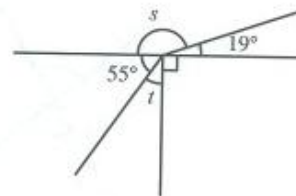


6. Find the unknown angles in each figure.

(a)

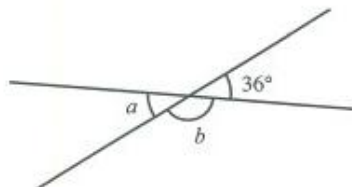


(b)

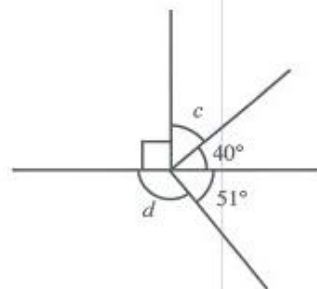


7. Find the unknown angles in each of the following figures.

(a)

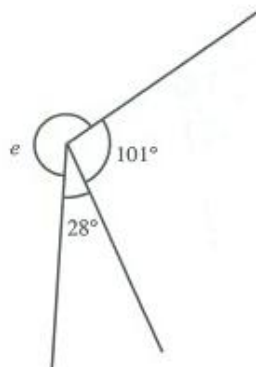


(b)

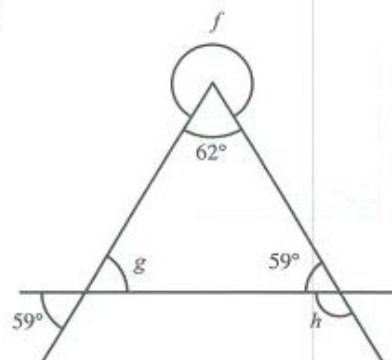


8. Find the unknown angles in each figure.

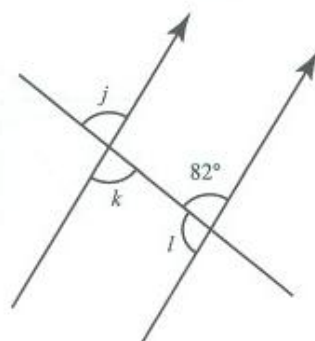
(a)



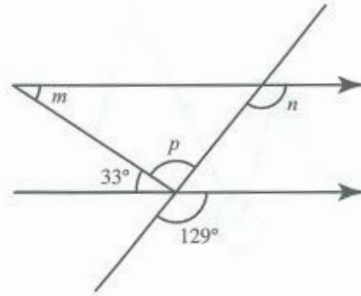
(b)



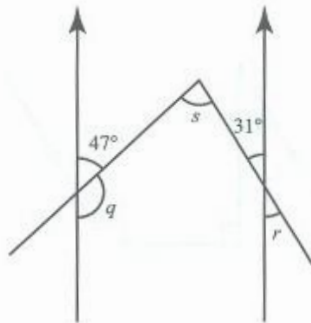
9. Find all the marked angles.



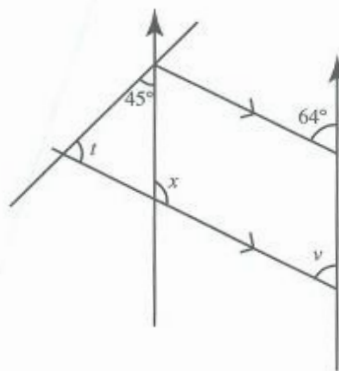
10. Find all the marked angles.



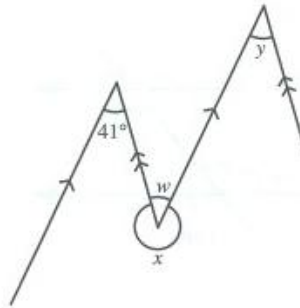
11. Find all the marked angles.



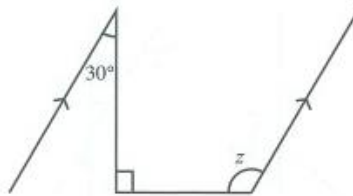
12. Find all the marked angles.



13. Find all the marked angles.



14. Find the marked angle.



15. In the figure below, identify all the

- (a) acute angles,
- (b) right angles,
- (c) obtuse angles, and
- (d) reflex angles.

