

# Angle rules

Using this figure answer the following questions.

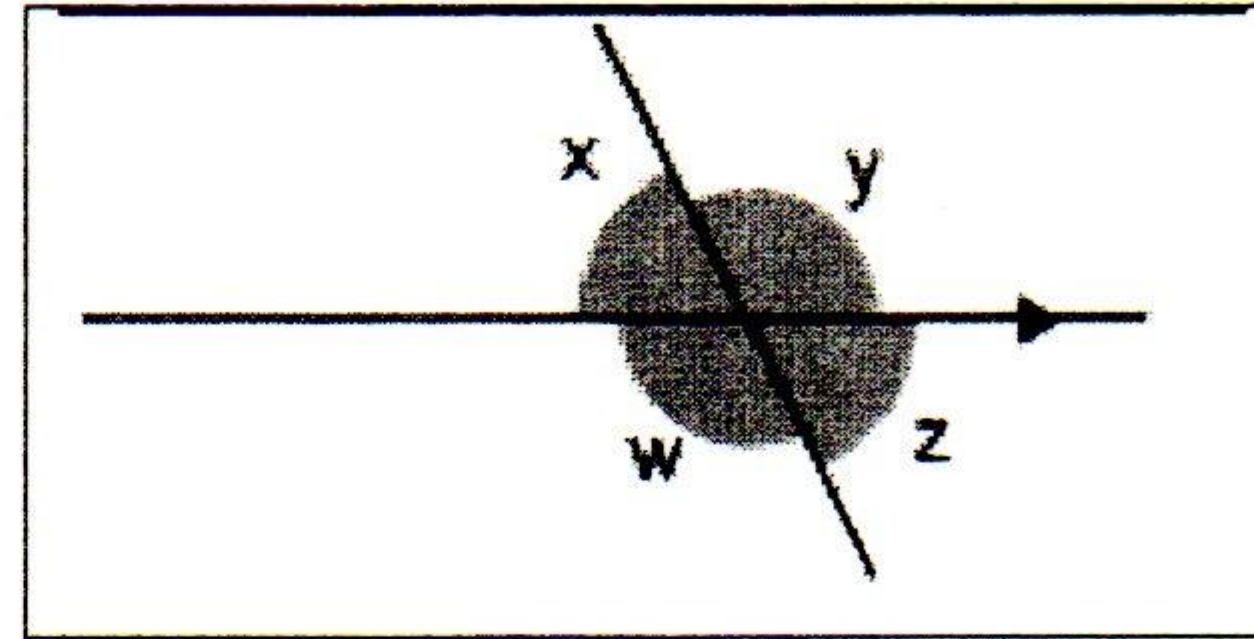
1. Write two supplementary angle.

\_\_\_\_\_

2. Write any two vertically opposite angle. \_\_\_\_\_

3. Is angle 'w' and angle 'z' adds to  $180^\circ$ .

\_\_\_\_\_



Using this figure answer the following questions.

4. State whether the angles t and y are.

\_\_\_\_\_

5. State whether the angles x and q are. \_\_\_\_\_

6. State whether the angles t and r are. \_\_\_\_\_

7. Write any two pairs of corresponding angles. \_\_\_\_\_

8. Write any two pairs of alternate angles. \_\_\_\_\_

9. Write any two pairs of co-interior angles. \_\_\_\_\_

10. Write any four pairs of supplementary angles.

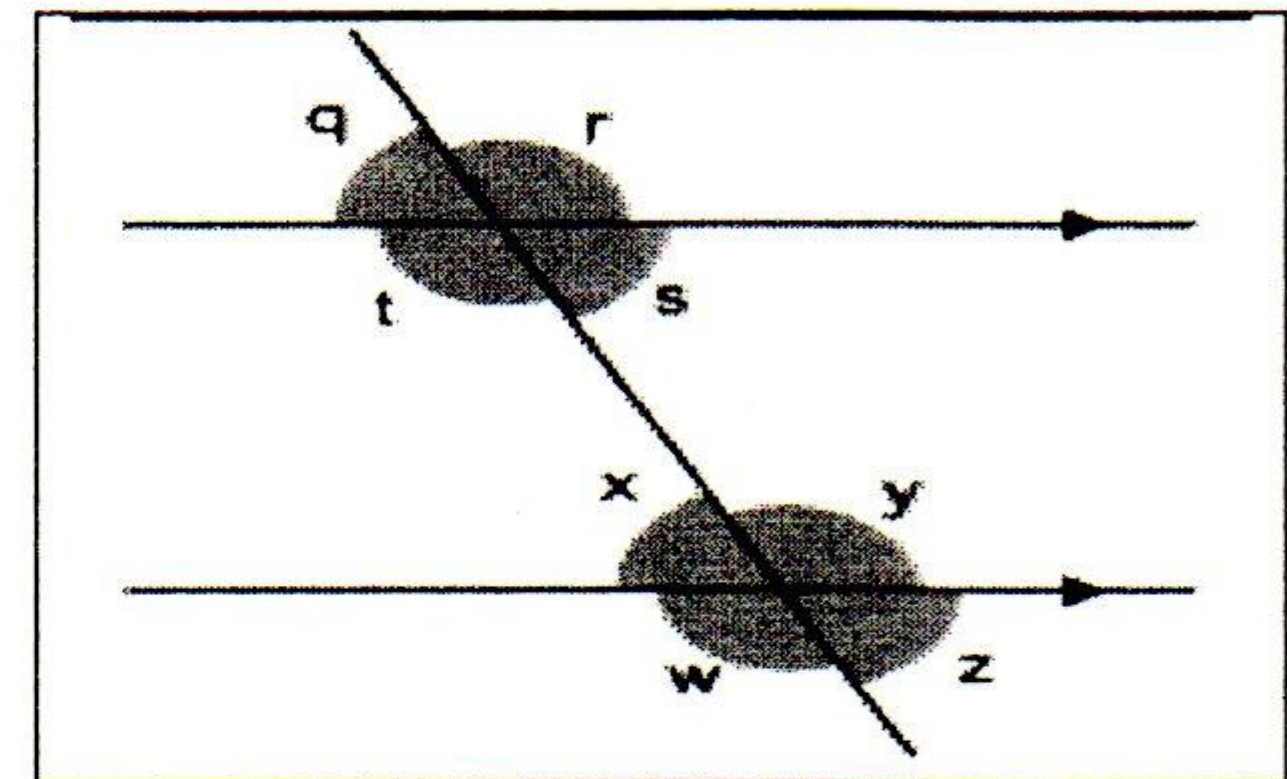
\_\_\_\_\_

11. Write all the angles which are equal to angle 'x'.

\_\_\_\_\_

12. Write all the angles which are equal to angle 'w'.

\_\_\_\_\_





Using this figure answer the following questions. (13-18)

13. What is the relation between angle 'q' and 'r'.

\_\_\_\_\_

14. What is the sum of angles 'p', 'q' and 'r'.

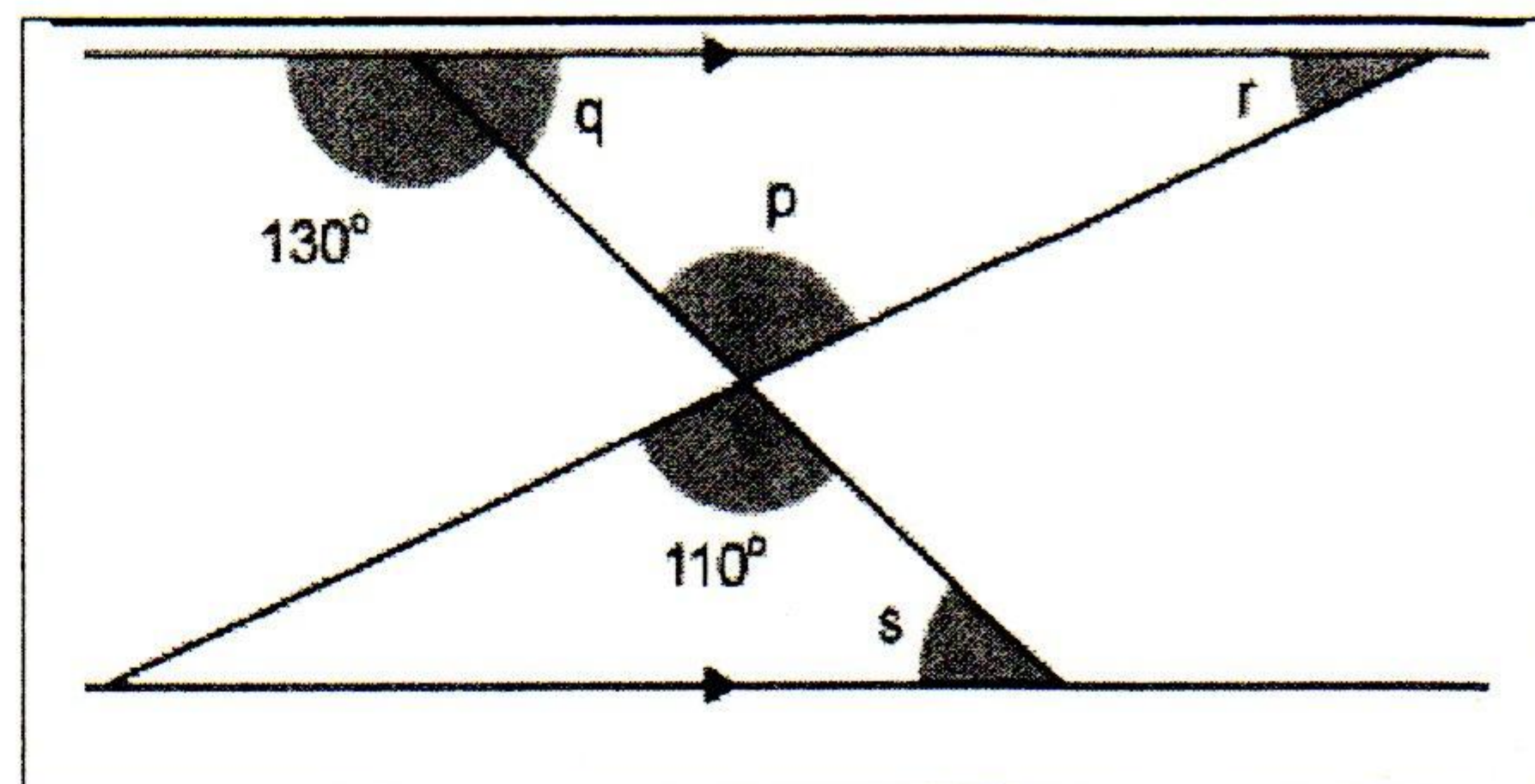
\_\_\_\_\_

15. Find the angle p. \_\_\_\_\_

16. Find the angle q. \_\_\_\_\_

17. Find the angle r. \_\_\_\_\_

18. Find the angle s. \_\_\_\_\_



19. What is the sum of the interior angles of a triangle? \_\_\_\_\_

20. A polygon has interior angles with a sum of  $540^\circ$ . What is the name of this polygon?

\_\_\_\_\_

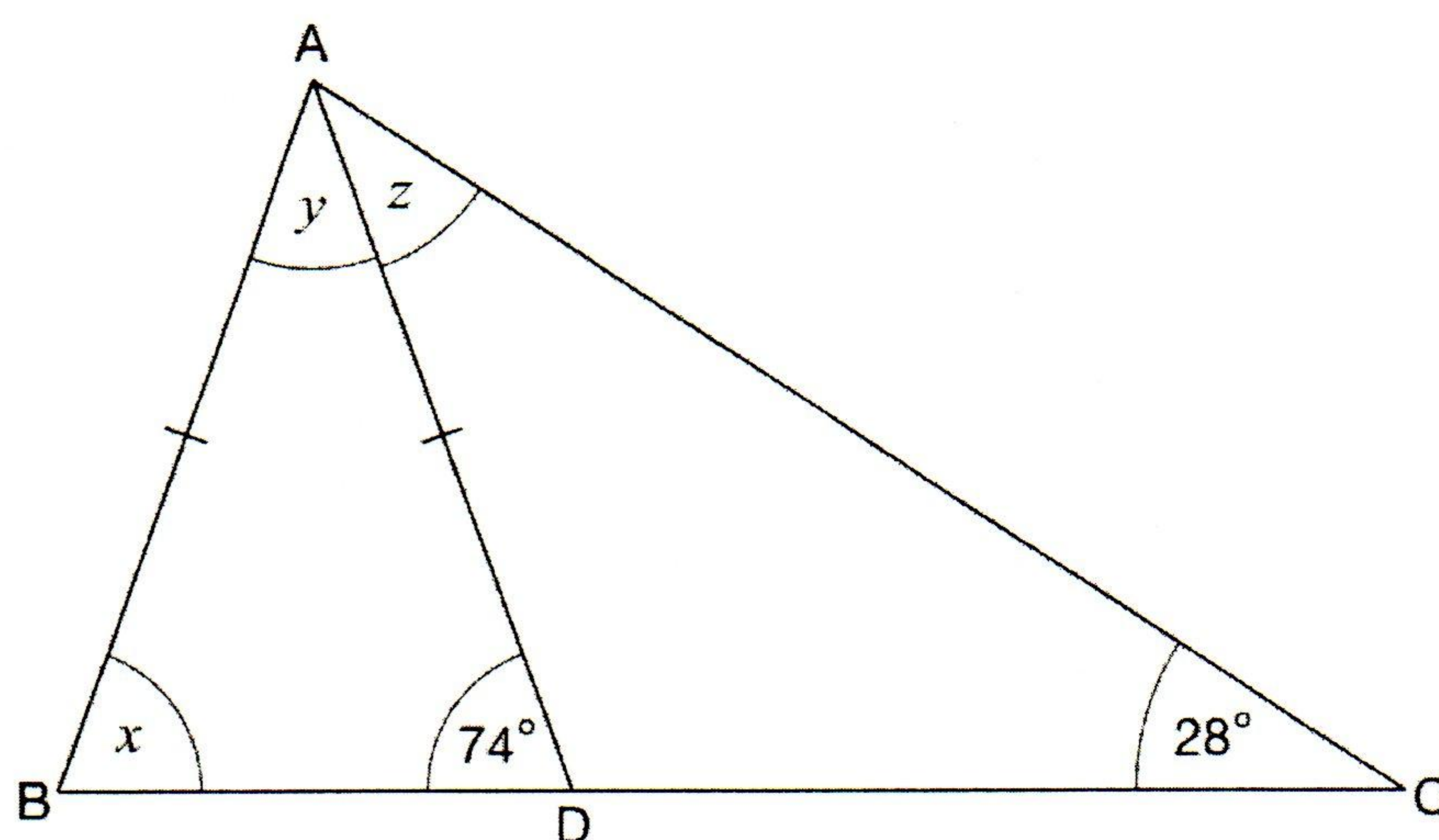
21. What is the sum of the exterior angles of a polygon? \_\_\_\_\_

22. Find the exterior angle of a regular hexagon. \_\_\_\_\_

23. Find the interior angle of a regular pentagon. \_\_\_\_\_

24. Look at triangle ABC.

ABD is an **isosceles** triangle where  $AB = AD$ .



Work out the sizes of angles  $x$ ,  $y$  and  $z$

$x =$  \_\_\_\_\_,  $y =$  \_\_\_\_\_,  $z =$  \_\_\_\_\_