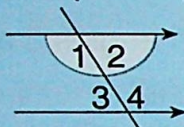


1.9 Finding alternate angles on parallel lines

Activity: Work in groups

- ☞ Draw a pair of parallel lines crossed by the transversal.

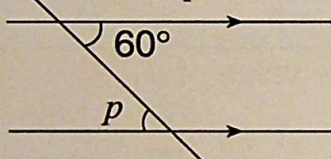


- ☞ Shade angles 1 and 2.

- ☞ Use a pair of scissors to cut off each of the shaded angles.
☞ Compare $\angle 1$ with $\angle 4$, then $\angle 2$ with $\angle 3$. What do you notice?

Example 1

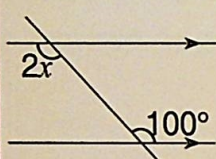
Find the value of p .



$$\angle p = 60^\circ \text{ (Alternate angles)}$$

Example 2

Find the value of x .



$$2x = 100^\circ$$



(Alternate angles)

$$\frac{2x}{2} = \frac{100^\circ}{2}$$

$$x = 50^\circ$$

Aid to memory

- ☞ Alternate angles on parallel lines are equal.

They appear like:  OR 

Exercise 8.9

Work out the following to find the sizes of the marked angles.

