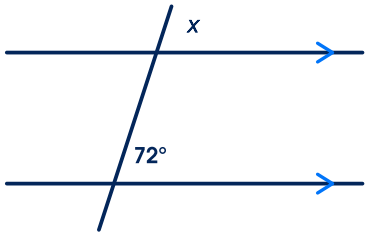
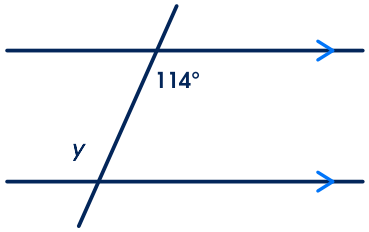
GCSE FOUNDATION · REVISION MAT 2

Angles in parallel lines

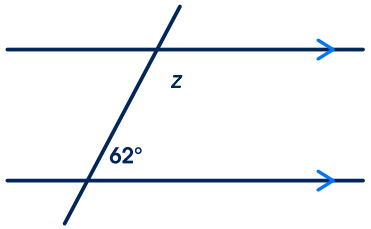
1 Work out the size of angle x.
Give a reason for your answer.



2 Work out the size of angle y.
Give a reason for your answer.



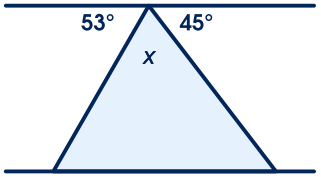
3 Show that angle $z = 118°$. Give a reason.



4 Two lines are crossed by a third line.
A pair of corresponding angles are 108° and 104°.

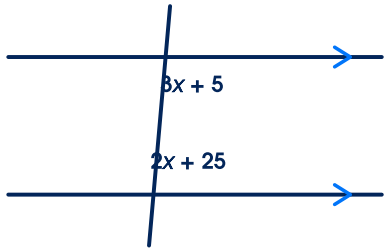
Explain how you know the
two lines are not parallel.

5 The two horizontal lines are parallel.



Work out the size of angle x. Give reasons.

6 Work out the value of x.



Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Angles in parallel lines

1 **72°**

Corresponding angles are equal.

2 **114°**

Alternate angles are equal.

3 Co-interior angles add up to 180°.

180 − 62 = **118°** ✓

4 If the lines were parallel, corresponding angles would be **equal**.

108° ≠ 104°, so the lines are not parallel.

5 The angles at the base are 53° and 45° (alternate angles).

180 − 53 − 45 = **82°** (angles in a triangle)

6 Co-interior angles add up to 180°.

$5x + 30 = 180$

$x = 30$