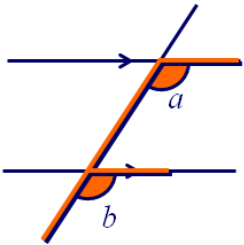


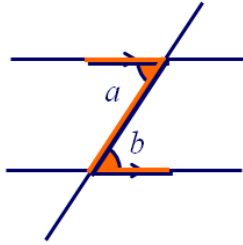
# PARALLEL LINES AND ANGLES

## Geometry and Measures

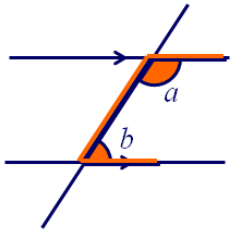
### Key Concepts



**Corresponding** angles are equal.



**Alternate** angles are equal.



**Co-interior** angles add to  $180^\circ$ .

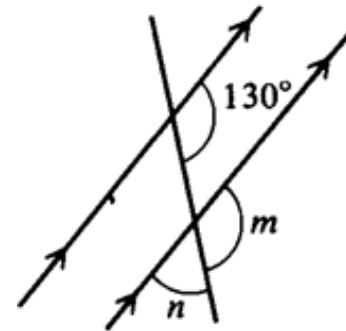
### Key Words

**Intersect:** Two lines which cross.

**Parallel:** Two lines which never intersect. Marked by an arrow on each line.

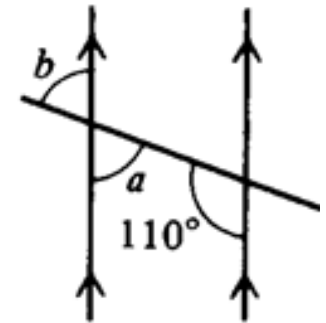
**Transversal:** A line which intersects two parallel lines.

### Examples



$m = 130^\circ$  as corresponding angles are equal.

$n = 50^\circ$  as angles on a line add to  $180^\circ$



$a = 70^\circ$  as co-interior angles add to  $180^\circ$

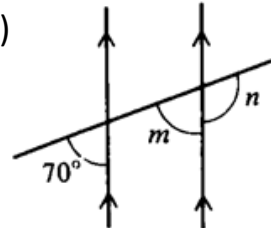
$b = 70^\circ$  as vertically opposite angles are equal

### Tip

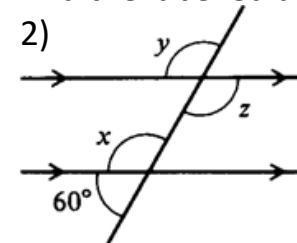
These angle properties can be used alongside all the other angle properties that you have learnt.

### Questions – Find the labelled angles, give reasons.

1)



2)



3)

