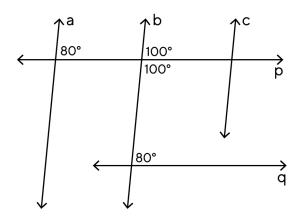
Parallel Lines

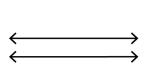
1. Based on the diagram, which of the lines are parallel?



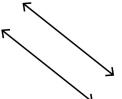
Parallel lines	Reasons
а	
b	
c	
d	

2. Identify if the pair of lines are 'parallel' or 'not parallel'.

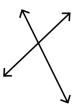
а



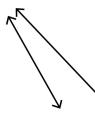
b

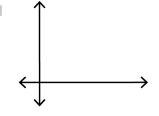


С

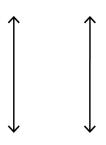


d





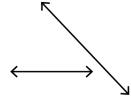
f



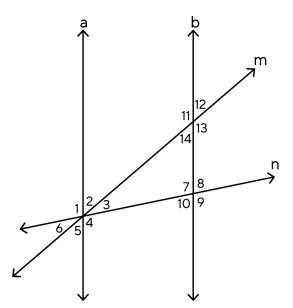
а



h



3. State the relation between each pair of the given angles (given: a || b).



- b $\angle 4$ and $\angle 10$
- c ∠11 and ∠13
- d $\angle 2$ and $\angle 14$
- e ∠5 and ∠12
- f $\angle 7$ and $\angle 9$
- $9 \angle 8$ and $\angle 9$



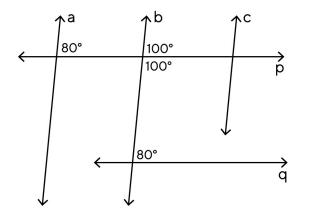
- -----
- -----
- -----
- -----
- ______

Parallel Lines



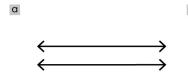
Answers

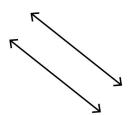
1. Based on the diagram, which of the lines are parallel?

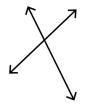


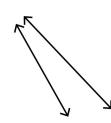
	Parallel lines	Reasons
а	b∥с	Alternate interior angles theorem
b	а∥Ь	Co-interior angle theorem
С	а∥с	Co-interior angle theorem
d	р∥q	Co-interior angle theorem

2. Identify if the pair of lines are 'parallel' or 'not parallel'.







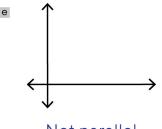


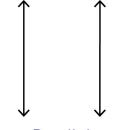
Parallel _ _

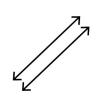
Parallel

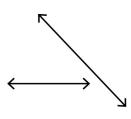
Not parallel

Not parallel









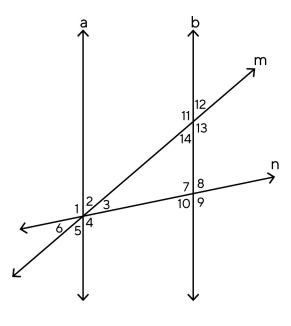
Not parallel

Parallel

Parallel

Not parallel

3. State the relation between each pair of the given angles (given: $a \parallel b$).



- a ∠1 and ∠7
- Corresponding angles
- b $\angle 4$ and $\angle 10$
- Co-interior angles
- c ∠11 and ∠13
- Vertically opposite angles
- d ∠2 and ∠14
- Alternate interior angles
- e ∠5 and ∠12
- Alternate exterior angles
- f $\angle 7$ and $\angle 9$
- Vertically opposite angles
- $9 \angle 8$ and $\angle 9$
- Linear pair