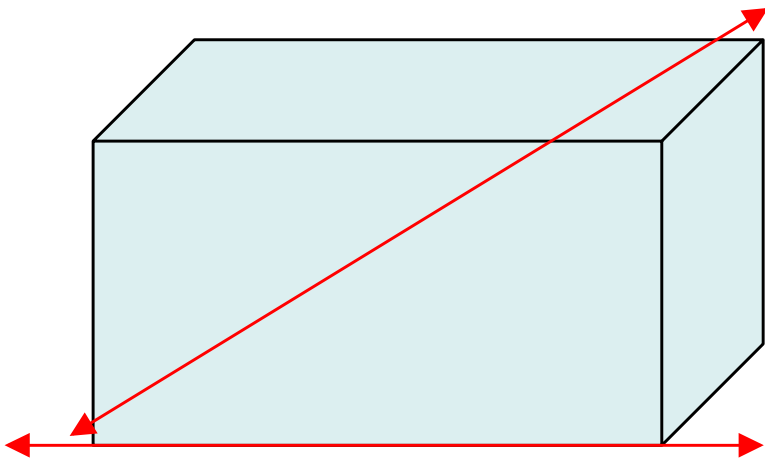


Skew Lines

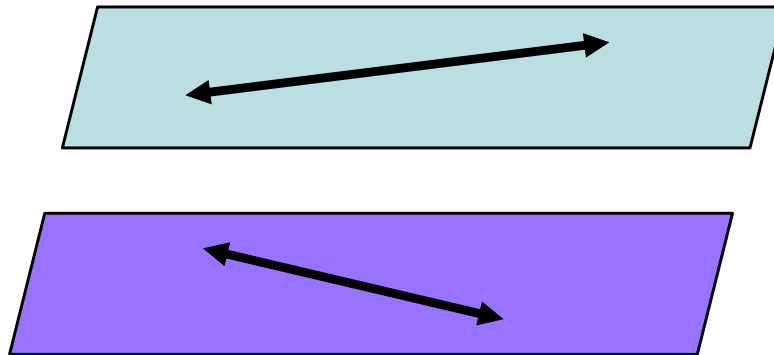


Skew lines are non parallel and non intersecting lines.

- Non coplanar lines
- Lie on different planes

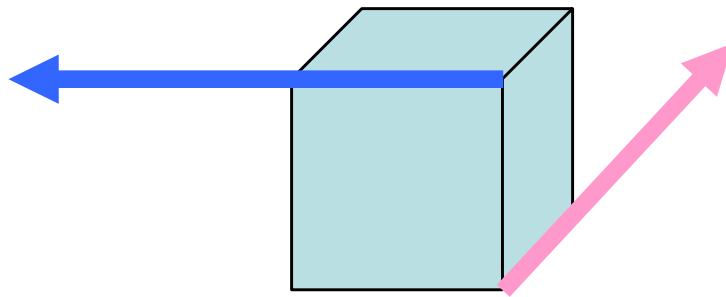
Skew lines

Skew lines are non coplanar lines.
(Non coplanar lines can not intersect.)



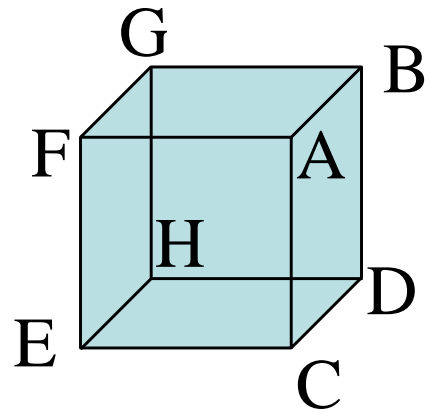
Skew Lines

Lines that lie in different planes.
They are neither parallel nor intersecting.



Skew Lines

Lines that lie in different planes.
They are neither parallel nor intersecting.



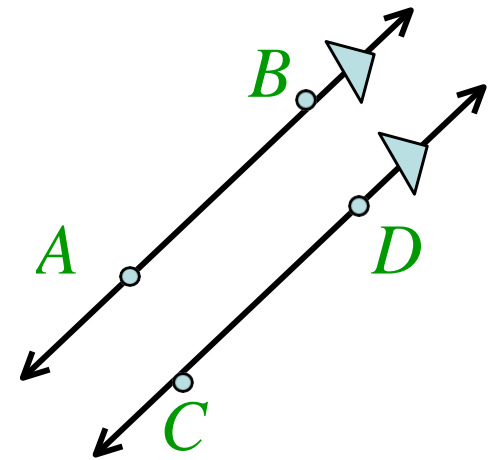
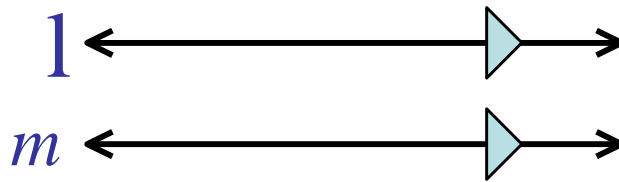
CD and FA are Skew Lines

FA and BD are Skew Lines

Parallel Lines

- **Def:** lines that do not intersect; must be coplanar.

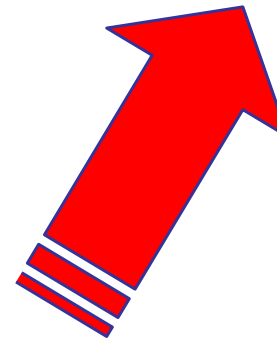
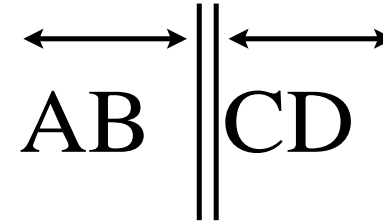
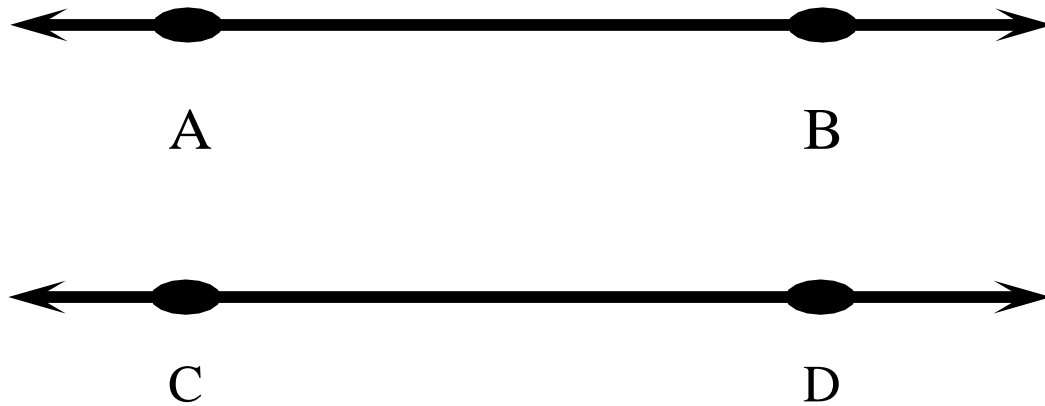
- **Illustration:**



- **Notation:** $l \parallel m$

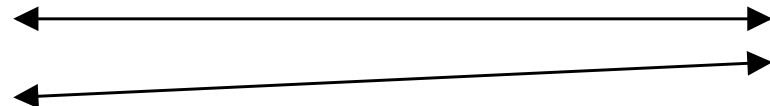
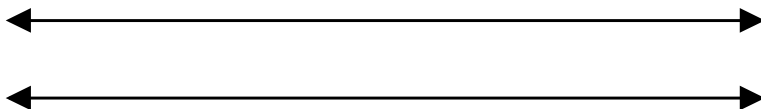
$$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$$

Two lines are parallel if they do not intersect.



Read as line AB is parallel to line CD. EX1:

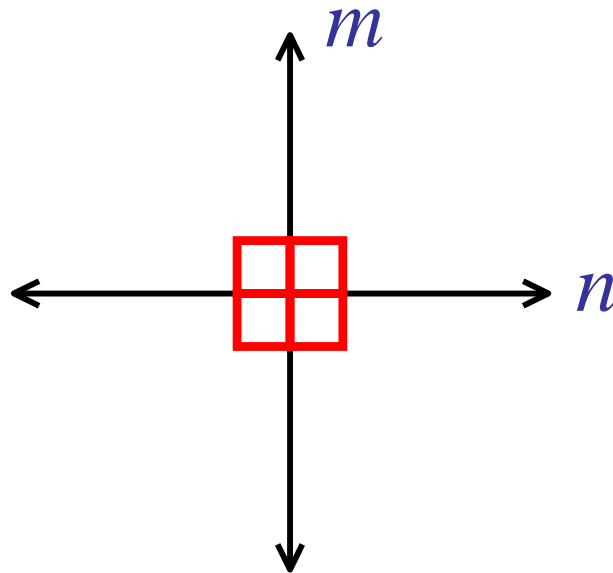
Are the lines parallel?



Perpendicular Lines

- **Def:** Lines that intersect to form a right angle.

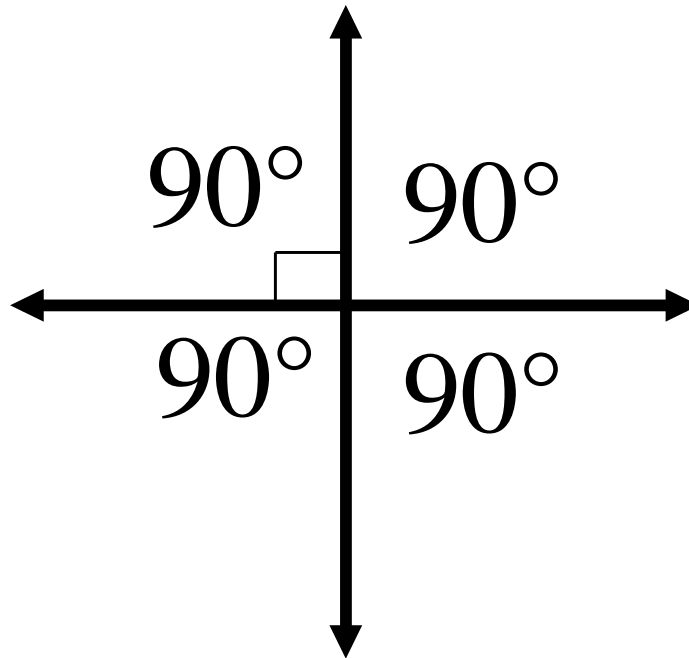
- **Illustration:**



- **Notation:** $m \perp n$
- **Key Fact:** 4 right angles are formed.

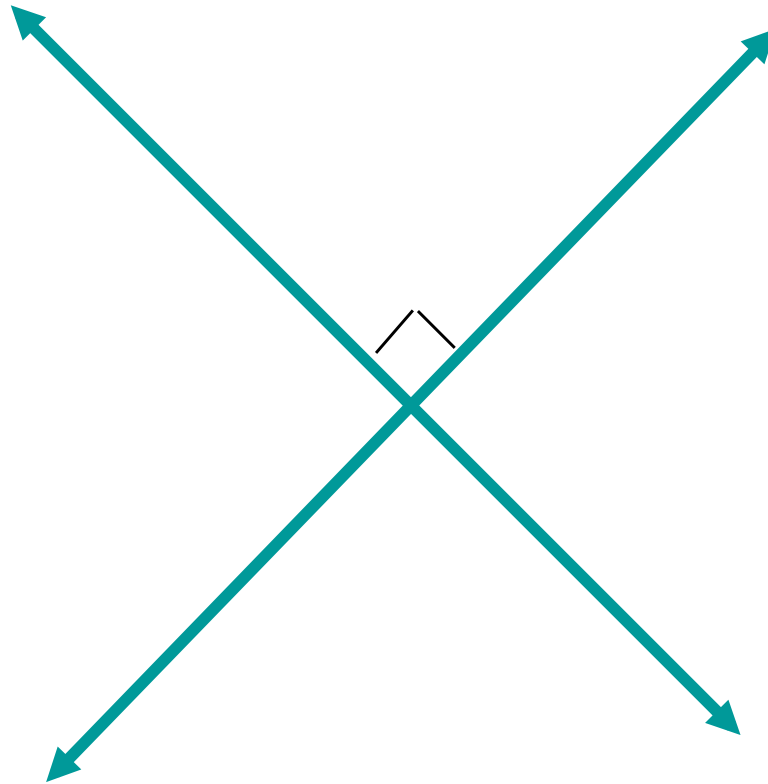
Perpendicular

- Lines that intersect to form right angles.



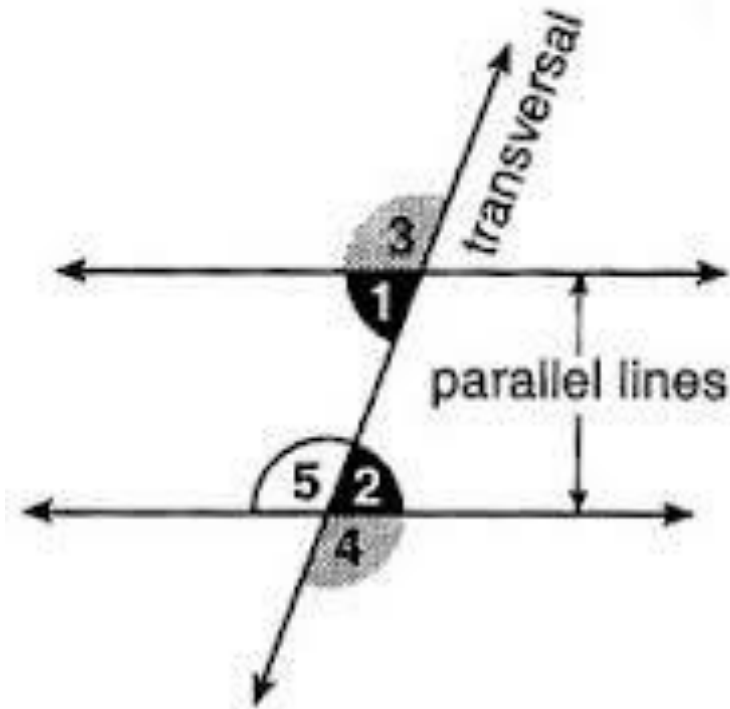
When two lines intersect at right angles,

TRICK: 4 right angles are formed, but it shows 1 only. (The other 3 are invisible.)



They are called perpendicular lines. \perp

Parallel lines & Transversal



Angles, Parallel Lines & Transversal

