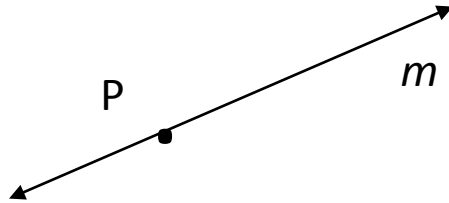


Phrases we can use to describe figures

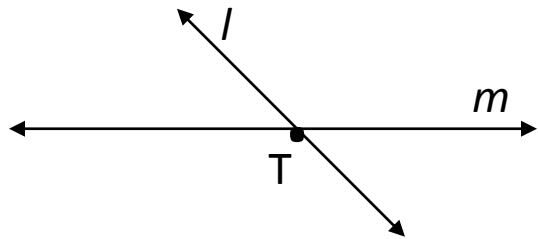
- A point lies ON a line
- A point IS ON a line
- A line CONTAINS a point
- A line PASSES THROUGH a point
- A line lies ON a plane or IN a plane
- A plane CONTAINS points and/or lines
- Two lines INTERSECT
- Two lines both CONTAIN a shared point
- A point IS THE INTERSECTION of two lines
- Two planes INTERSECT
- One line and one plane INTERSECT

Examples

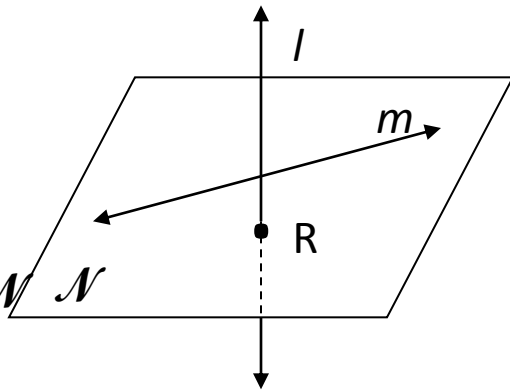
- P is on m
- m contains P
- m passes through P



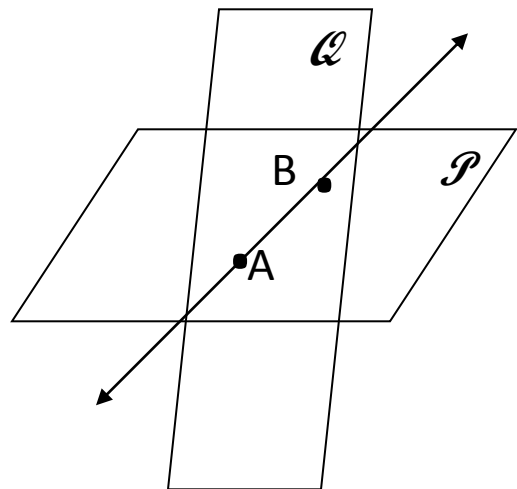
- l and m intersect in T
- l and m both contain T
- T is the intersection of l and m



- l and R are in \mathcal{N}
- \mathcal{N} contains R and l
- m intersects \mathcal{N} at R
- R is the intersection of m with \mathcal{N}



- AB is in \mathcal{P} and is in \mathcal{Q}
- \mathcal{P} and \mathcal{Q} both contain AB
- \mathcal{P} and \mathcal{Q} intersect in AB
- AB is the intersection of \mathcal{P} and \mathcal{Q}



Practice

Draw each of the figures described:

1. Line k contains point T.
2. Lines m and n intersect at point Q.
3. Points R, S and T are in plane \mathcal{M} , but point W does not lie in plane \mathcal{M} .
4. k does not intersect \mathcal{M} .
5. t intersects \mathcal{G} at point D.
6. l , m , and j intersect at P.
7. \mathcal{N} contains d .
8. A, B, C and D are noncollinear.
9. M is on line GH.
10. \mathcal{B} contains p . R, S and T lie in \mathcal{B} , but only R and S lie on p .
11. k and w are coplanar.
12. A, B, and D are coplanar, but only A and B are collinear.