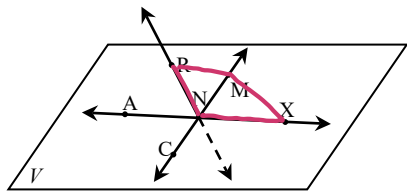


1.1 – Points, Lines, and Planes – Part 2

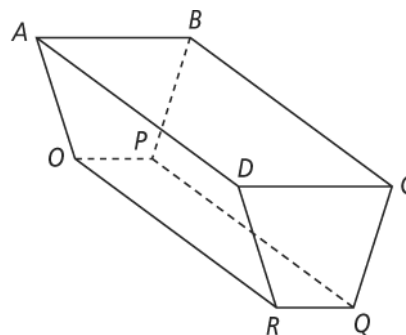
Use the figure for #1-2 to do the following.



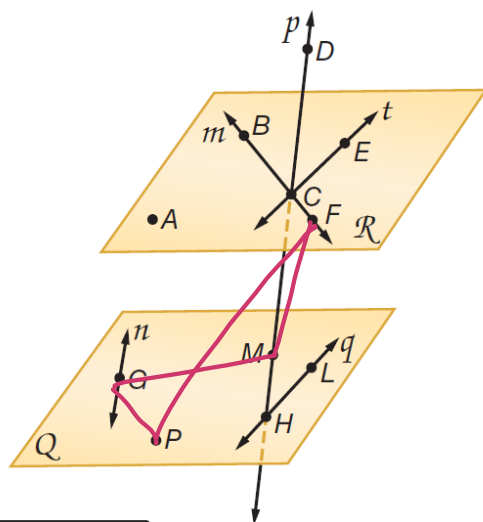
- 1) Name three collinear points.
Example: Points A, N, and X
- 2) Are points R, N, M, and X coplanar?
No. They don't lie on the same plane.

Use the figure for #3-7. Name the intersection of each pair of planes or lines.

- 3) Planes ABP and BCD
 \overleftrightarrow{AB}
- 4) Planes BCD and BCQ
 \overleftrightarrow{BC}
- 5) \overleftrightarrow{RQ} and \overleftrightarrow{RO}
Point R
- 6) \overleftrightarrow{OP} and \overleftrightarrow{QP}
Point P
- 7) planes ADR and DCQ
 \overleftrightarrow{DR}



Use the figure for #8-16. Name the intersection of each pair of planes or lines.



- 8) Name the lines that are only in plane Q.
Example: Lines n and q
- 9) How many planes are labeled in the figure?
2
- 10) Name the plane containing the lines m and t.
Example: Plane R
- 11) Name the intersection of lines m and t.
Point C
- 12) Name a point that is not coplanar with points A, B, and C.
Example: Point P
- 13) What is another name for line r?
Example: \overleftrightarrow{CE}
- 14) Name the points not contained in a line shown.
Points A and P
- 15) Are points F, M, G, and P coplanar? Explain.
No. They don't lie on the same plane.
- 16) Does line n intersect line q? Explain.
Eventually, all coplanar lines intersect unless they're parallel

Use the figure for #3-7. Name the intersection of each pair of planes or lines.

17) Name two collinear points.

Example: Point M and N

18) How many planes appear in the figure?

7

19) In what line do planes A and QRV intersect?

*\leftrightarrow
QR*

20) Do plane A and plane MNP intersect? Explain.

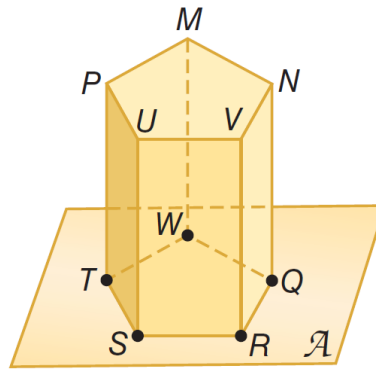
No. If plane MNP is extended in all directions, it appears to be parallel to plane A.

21) Are points $T, S, R, Q,$ and V coplanar? Explain.

No. The 5 points are not on the same plane.

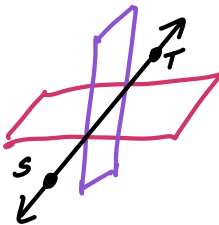
22) Are points $T, S, R, Q,$ and W coplanar? Explain.

Yes. They form a plane in the form of a pentagon.

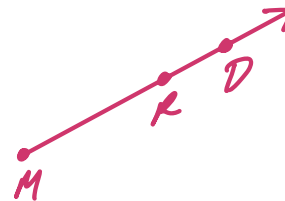


Draw a figure to fit each description

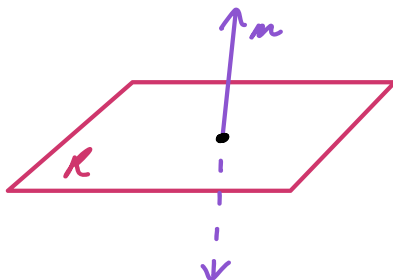
23) Draw a figure of two planes that intersect in \overleftrightarrow{ST} .



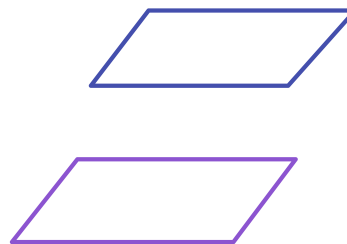
24) Two rays \overrightarrow{MR} and \overrightarrow{MD} that form the exact same ray.



25) Line m intersects plane R at a single point.



26) Two planes that do not intersect.



27) Points X and Y lie on \overleftrightarrow{CD} .



28) Three lines intersect at point J but do not all lie in the same plane.

