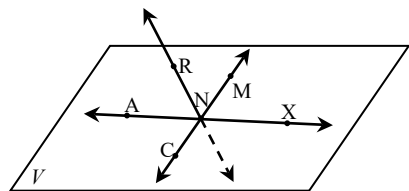


# 1.1 – Points, Lines, and Planes – Part 2

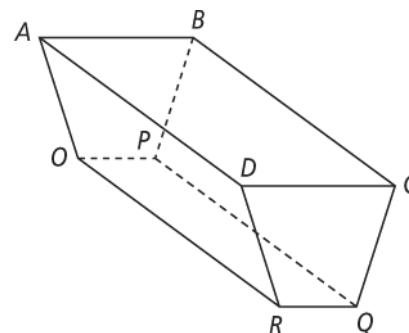
Use the figure for #1-2 to do the following.



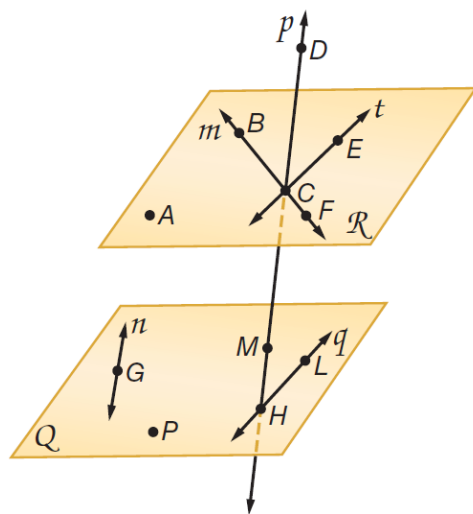
- 1) Name three collinear points.
- 2) Are points  $R$ ,  $N$ ,  $M$ , and  $X$  coplanar?

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

- 3) Planes  $ABP$  and  $BCD$
- 4) Planes  $BCD$  and  $BCQ$
- 5)  $\overrightarrow{RQ}$  and  $\overrightarrow{RO}$
- 6)  $\overrightarrow{OP}$  and  $\overrightarrow{QP}$
- 7) planes  $ADR$  and  $DCQ$



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  $Q$ .
- 9) How many planes are labeled in the figure?
- 10) Name the plane containing the lines  $m$  and  $t$ .
- 11) Name the intersection of lines  $m$  and  $t$ .
- 12) Name a point that is not coplanar with points  $A$ ,  $B$ , and  $C$ .
- 13) What is another name for line  $t$ ?
- 14) Name the points not contained in a line shown.
- 15) Are points  $F$ ,  $M$ ,  $G$ , and  $P$  coplanar? Explain.
- 16) Does line  $n$  intersect line  $q$ ? Explain.

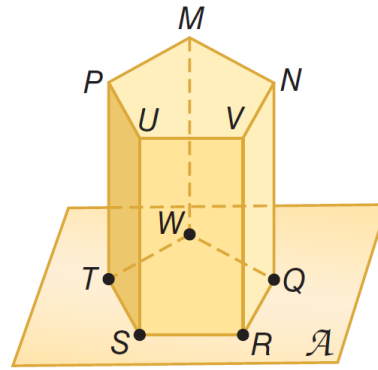
Use the figure for #3-7. Name the intersection of each pair of planes or lines.

17) Name two collinear points.

18) How many planes appear in the figure?

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

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



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

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

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.