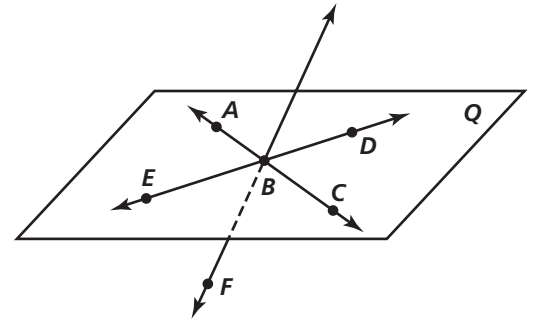


# Practice 1-3

## Points, Lines, and Planes

Refer to the diagram at the right for Exercises 1–8.

1. Name  $\overleftrightarrow{AB}$  in another way. \_\_\_\_\_
2. Give two other names for plane  $Q$ . \_\_\_\_\_



Are the following sets of points collinear?

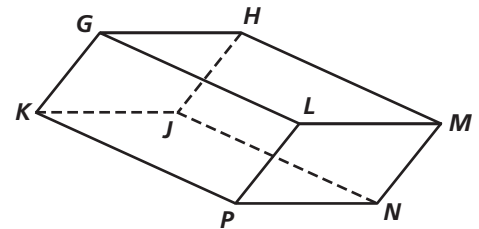
3.  $\overleftrightarrow{AB}$  and  $C$  \_\_\_\_\_
4.  $\overleftrightarrow{EB}$  and  $A$  \_\_\_\_\_

Are the following sets of points coplanar?

5.  $E, B,$  and  $F$  \_\_\_\_\_
6.  $\overleftrightarrow{AC}$  and  $\overleftrightarrow{ED}$  \_\_\_\_\_
7.  $F, A, B,$  and  $C$  \_\_\_\_\_
8. plane  $Q$  and  $\overleftrightarrow{EC}$  \_\_\_\_\_

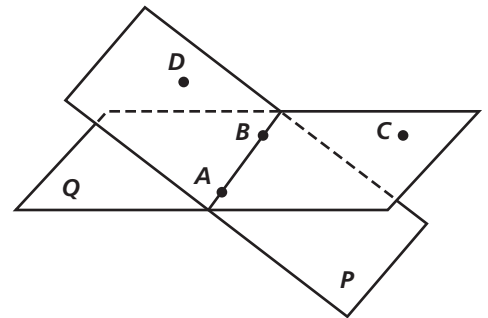
Find the intersection of the following lines and planes in the figure at the right.

9.  $\overleftrightarrow{GK}$  and  $\overleftrightarrow{LG}$  \_\_\_\_\_
10. planes  $GLM$  and  $LPN$  \_\_\_\_\_
11. planes  $HJN$  and  $GKL$  \_\_\_\_\_
12.  $\overleftrightarrow{KP}$  and plane  $KJN$  \_\_\_\_\_



Refer to the diagram at the right.

13. Name plane  $P$  in another way. \_\_\_\_\_
14. What is the intersection of planes  $P$  and  $Q$ ? \_\_\_\_\_
15. Are  $D, A, B,$  and  $C$  coplanar? \_\_\_\_\_
16. Are  $D$  and  $C$  collinear? \_\_\_\_\_
17. What is the intersection of  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{DC}$ ? \_\_\_\_\_
18. Are planes  $P$  and  $Q$  coplanar? \_\_\_\_\_
19. Are  $\overleftrightarrow{AB}$  and plane  $Q$  coplanar? \_\_\_\_\_
20. Are  $B$  and  $C$  collinear? \_\_\_\_\_



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