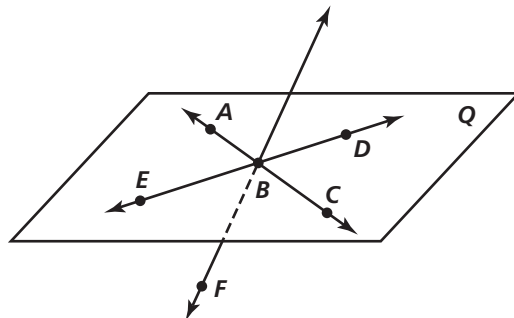


Practice 1-2

Points, Lines, and Planes

Refer to the diagram at the right for Exercises 1–15.



1. Name \overleftrightarrow{AB} in another way.
2. Give two other names for plane Q .
3. Why is EBD not an acceptable name for plane Q ?

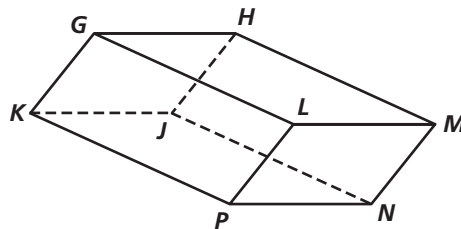
Are the following sets of points collinear?

- | | |
|--------------------------------------|----------------------|
| 4. \overleftrightarrow{AB} and C | 5. B and F |
| 6. \overleftrightarrow{EB} and A | 7. F and plane Q |

Are the following sets of points coplanar?

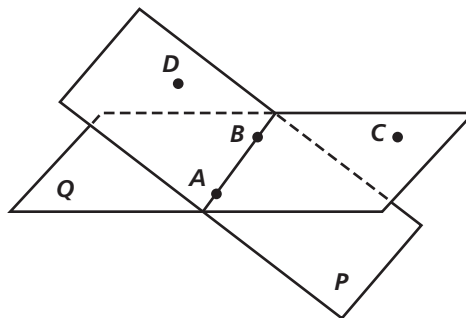
- | | |
|---|---|
| 8. $E, B,$ and F | 9. \overleftrightarrow{DB} and \overleftrightarrow{FC} |
| 10. \overleftrightarrow{AC} and \overleftrightarrow{ED} | 11. \overleftrightarrow{AE} and \overleftrightarrow{DC} |
| 12. $F, A, B,$ and C | 13. $F, A, B,$ and D |
| 14. plane Q and \overleftrightarrow{EC} | 15. \overleftrightarrow{FB} and \overleftrightarrow{BD} |

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



16. \overleftrightarrow{GK} and \overleftrightarrow{LG}
17. planes GLM and LPN
18. planes $GHPN$ and KJP
19. planes HJN and GKL
20. \overleftrightarrow{KP} and plane KJN
21. \overleftrightarrow{KM} and plane GHL

Refer to the diagram at the right.



22. Name plane P in another way.
23. Name plane Q in another way.
24. What is the intersection of planes P and Q ?
25. Are A and C collinear?
26. Are $D, A, B,$ and C coplanar?
27. Are D and C collinear?
28. What is the intersection of \overleftrightarrow{AB} and \overleftrightarrow{DC} ?
29. Are planes P and Q coplanar?
30. Are \overleftrightarrow{AB} and plane Q coplanar?
31. Are B and C collinear?