Practice 1-3

Points, Lines, and Planes

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

- 1. Name \overrightarrow{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. \overrightarrow{AB} and C

5. B and F

6. \overrightarrow{EB} and A

7. F and plane Q

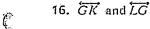
Are the following sets of points coplanar?

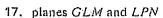
8. E, B, and F

9. \overrightarrow{DB} and \overrightarrow{FC}

- 10. AC and ED
- 11. AE and DC
- 12. F. A. B. and C
- 13. F, A, B, and D
- 14. plane Q and EC
- 15. \overrightarrow{FB} and \overrightarrow{BD}

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



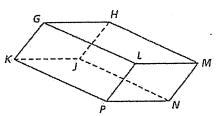


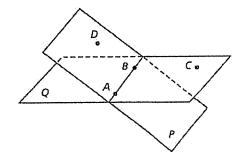
- 18. planes GHPN and KJP
- 19. planes HJN and GKL
- 20. \overrightarrow{KP} and plane KJN
- 21. KM and plane GHL

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 \overrightarrow{AB} and \overrightarrow{DC} ?
- 29. Are planes P and Q coplanar?
- 30. Are AR and plane Q coplanar?
- 31. Are B and C collinear?

Geometry Chapter 1





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