Practice 1-3 .... Points, Lines, and Planes
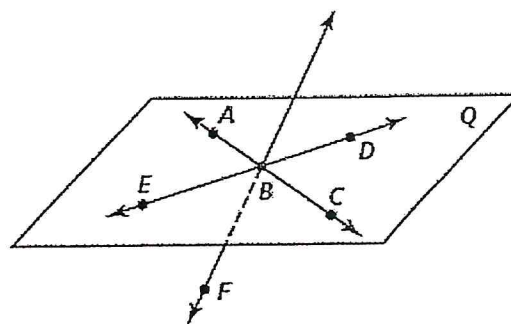
Refer to the diagram at the right for Exercises 1–15.

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