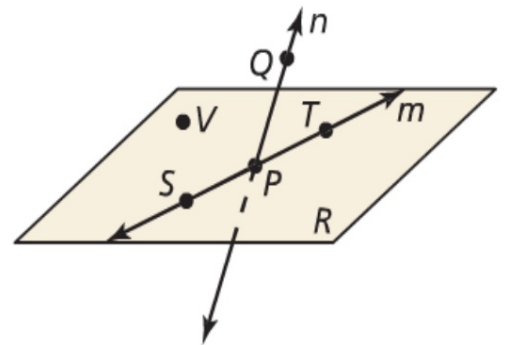


- a. Give two other names for \overleftrightarrow{PQ} and plane R .
- b. Name three points that are collinear. Name four points that are coplanar.

SOLUTION

- a. Other names for \overleftrightarrow{PQ} are \overleftrightarrow{QP} and line n . Other names for plane R are plane SVT and plane PTV .

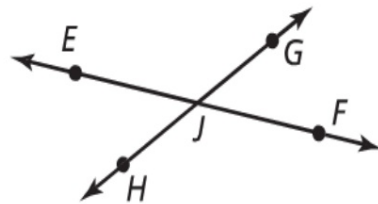


Use the diagram in Example 1. Give two other names for \overleftrightarrow{ST} . Name a point that is *not* coplanar with points Q , S , and T . \overleftrightarrow{PT} , line m ; V

[Hide Answers](#)

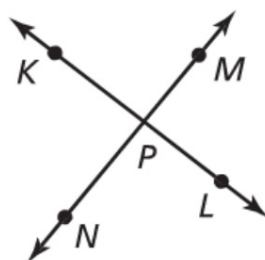


- a. Give another name for \overline{GH} .
- b. Name all rays with endpoint J . Which of these rays are opposite rays?



- a. Another name for \overline{GH} is \overline{HG} .
- b. The rays with endpoint J are \overrightarrow{JE} , \overrightarrow{JG} , \overrightarrow{JF} , and \overrightarrow{JH} . The pairs of opposite rays with endpoint J are \overrightarrow{JE} and \overrightarrow{JF} , and \overrightarrow{JG} and \overrightarrow{JH} .

Use the diagram.

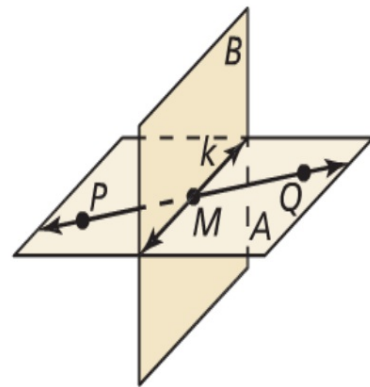
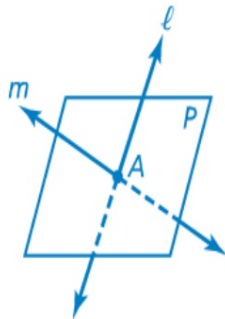


2. Give another name for \overleftrightarrow{KL} . \overleftrightarrow{LK}
3. Are \overrightarrow{KP} and \overrightarrow{PK} the same ray? Are \overrightarrow{NP} and \overrightarrow{NM} the same ray? Explain.
no; yes; \overrightarrow{KP} and \overrightarrow{PK} have different endpoints and are going in different directions. \overrightarrow{NP} and \overrightarrow{NM} have the same endpoint and are going in the same direction.

[Hide Answers](#)

4. Sketch two different lines that intersect a plane at the same point.

Sample answer:



Use the diagram.

5. Name the intersection of \overleftrightarrow{PQ} and line k . *M*
6. Name the intersection of plane A and plane B. *line k*
7. Name the intersection of line k and plane A. *line k*