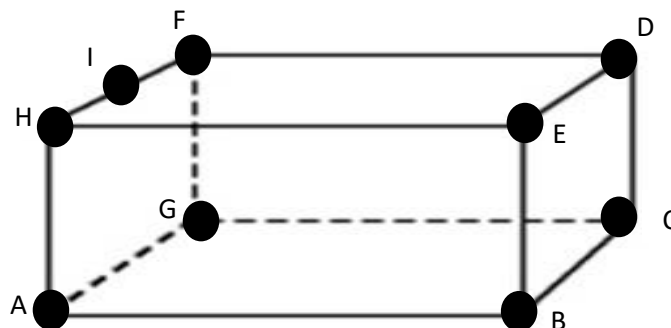


Section 1.1

Lines and Planes Homework

Fill in each blank using the figure below.



1. Points H, I, and F are (collinear or coplanar). Circle one.

Points E, B, and C are (collinear or coplanar). Circle one.

Recall that points are coplanar if three or more lie on the same plane and points are collinear if three or more lie on the same line.

2. Plane BCD contains what points? Circle all that apply.

A B C D E F G H I

3. Plane HAB intersects plane AGC at _____.

4. Plane FDE intersects plane EBC at _____.

Using the same figure above, determine all points that are non-coplanar with the given points.

Recall that points are coplanar if three or more lie on the same plane. Use this definition to formulate a definition for non-coplanar.

5. What points are non-coplanar with points H, F, and E? Circle all that apply.

A B C D E F G H I

6. What points are non-coplanar with points H, B, and E? Circle all that apply.

A B C D E F G H I

7. What points are non-coplanar with points D, C, and G? Circle all that apply.

A B C D E F G H I

What point is coplanar with the given points. Circle all that apply.

8. H, E, and I

A B C D E F G H I

9. B, C, and G

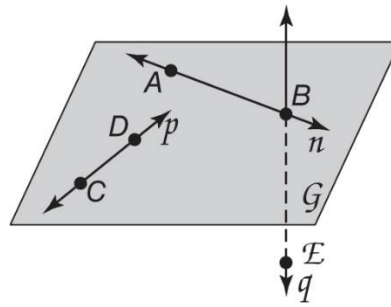
A B C D E F G H I

Refer to the figure.

10. Name a line that contains point E .

11. Name a point contained in line n .

12. What is another name for line p ?

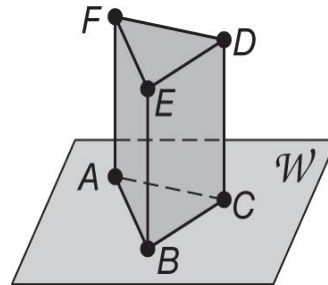


Refer to the figure.

13. How many planes are shown in the figure?

14. Name four points that are coplanar.

15. Are points A , B , and C coplanar? Explain.

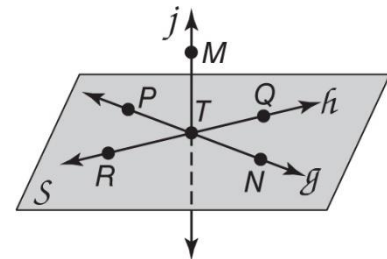


Refer to the figure.

16. Name a line that contains points T and P .

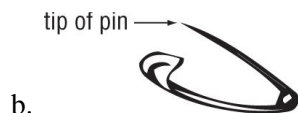
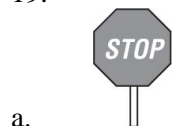
17. Name a line that intersects the plane containing points Q , N , and P .

18. Name the plane that contains \overleftrightarrow{TN} and \overleftrightarrow{QR} .



VISUALIZATION: Name the geometric term(s) modeled by each object. Either plane, line, or point.

19.



c. A car antenna

d. A library card

BONUS: The map shows some of the roads in downtown Little Rock. Lines are used to represent streets and points are used to represent intersections. Four of the street intersections are labeled. What street corresponds to line AB ? _____

