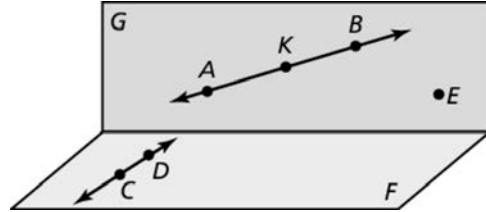


Name _____ Date _____

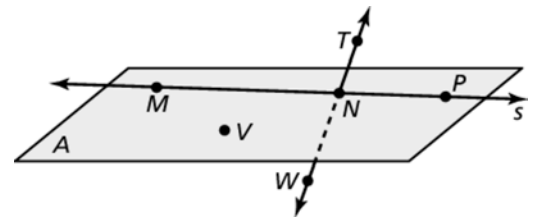
In Exercises 1–3, use the diagram.

1. Name two points.
2. Name two lines.
3. Name the plane that contains point A , B , and E .



In Exercises 4–7, use the diagram.

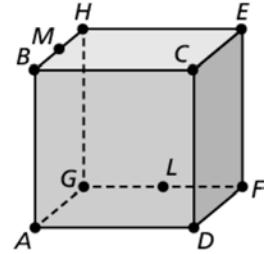
4. Give one other name for \overline{MN} .
5. Name three points that are collinear.
6. Name three points that are coplanar.
7. Name a point that is *not* coplanar with points N , P , and T .



In Exercises 8–10, sketch the figure described.

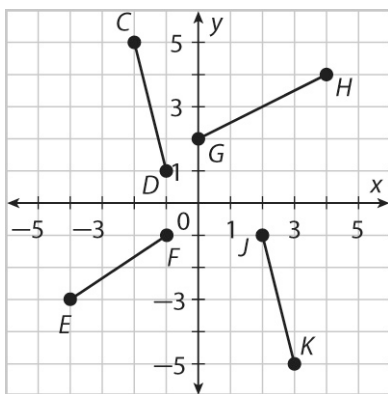
8. plane A and line c intersecting at all points on line c
9. \overline{GM} and \overline{GH}
10. line \overline{CD} and plane X not intersecting

In Exercises 11–14, use the diagram.



11. Name a point that is coplanar with points A , D , and G .
12. Name the intersection of plane HEG and plane DFE .
13. Name a point that is collinear with BH .
14. Name a point that is *not* coplanar with points C , E , and M .

Use the distance formula to determine whether each pair of segments have the same length.



16. \overline{CD} and \overline{EF}

17. \overline{GH} and \overline{JK}

Geometry 1-1 Points, Lines, Planes

Use the distance formula to find length between the given points.

18. $(-2, -8), (-4, -5)$

19. $(3, -8), (-4, -1)$

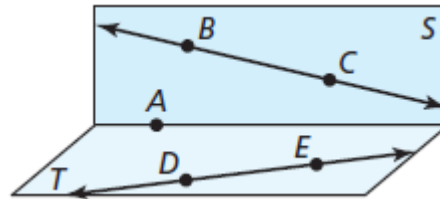
In Exercises 20 – 23 , use the diagram.

20. Name four points

21. Name two lines.

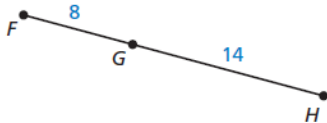
22. Name the plane that contains points $A, B,$ and $C.$

23. Name the plane that contains points $A, D,$ and $E.$

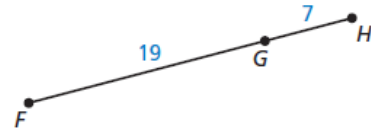


In Exercises 24–27, find $FH.$

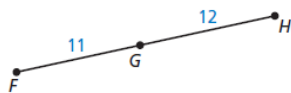
24.



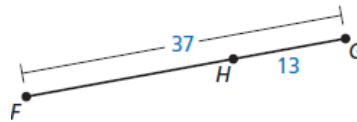
25.



26.



27.



Geometry 1-1 Points, Lines, Planes

Point S is between points R and T on RT . Use the information to write an equation in terms of x . Then solve the equation and find RS , ST , and RT .

28. $RS = 2x + 10$

$$ST = x - 4$$

$$RT = 21$$

29. $RS = 3x - 16$

$$ST = 4x - 8$$

$$RT = 60$$

30. $RS = 2x - 8$

$$ST = 11$$

$$RT = x + 10$$

31. $RS = 4x - 9$

$$ST = 19$$

$$RT = 8x - 14$$