

Practice A

For use with pages 16–18

Draw a sketch and label as needed.

- Three collinear points, A, B, and C.
- Coplanar points W, X, Y, and Z.



- \vec{MN} intersecting \vec{PQ} at point R.
- Opposite rays, \vec{JR} and \vec{JC} .



Decide whether the statement is true or false.

- Point X lies on line m.
- Point W lies on line m.
- Point V lies on line l.
- Point Y lies on line l.
- X, Y, and Z are collinear.
- X, Y, and Z are coplanar.
- V, Y, and X are collinear.
- V, Y, and X are coplanar.

T
F
T
T

F
F
F
F



Name a point that is collinear with the given points.

- B and E
- D and G
- H and E
- A and D
- F and H
- A and C
- G and C
- B and C

H
A
B
G

G
E
D
A



Name a point that is coplanar with the given points.

- M, N, and O
- M, N, and R
- T, Q, and M
- T, Q, and R
- T, S, and R
- T, S, and O
- O, S, and R
- O, P, and M

P
Q
N
O

Q
S
P
N



In Exercises 29–34, complete the sentence.

- Collinear points are points that _____. *lie on the same line*
- Coplanar points are points that _____. *lie on the same plane*
- \overline{XY} consists of the endpoints X and Y and all points on the line \overleftrightarrow{XY} that lie _____. *between them*
- \vec{MN} consists of the initial point M and all points on the line \overleftrightarrow{MN} that lie _____. *between M and N*
- Two rays or segments are collinear if they _____. *lie on the same line*
- \vec{PQ} and \vec{PR} are opposite rays if _____. *same endpoint P and opposite direction*
- Explain the difference between \vec{BC} and \overleftrightarrow{BC} .

\vec{BC} = endpoint B, endpoint C
 \overleftrightarrow{BC} = line

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