

# 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
- O, S, and R

P  
Q  
N  
O

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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web oct 16 2023 vector addition is a mathematical operation that combines two or more vectors to produce a new vector called resultant vector while we can simply add any two scalar quantities but while adding the two vectors we need to be

careful about their direction which are given by their unit vectors