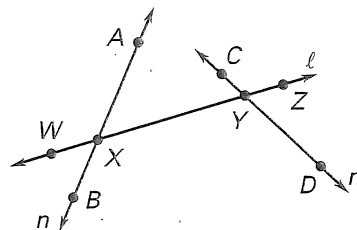


**Practice C**

For use with pages 10–16

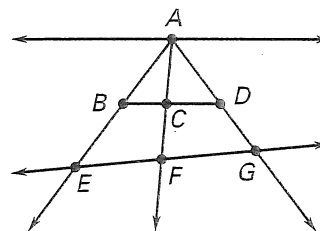
Decide whether the statement is *true* or *false*.

- |   |  |
|---|--|
| 1. Point $Y$ lies on line $m$ .                                   | 2. $X, Y,$ and $Z$ are collinear.                                |
| 3. Point $W$ lies on line $m$ .                                   | 4. $X, Y,$ and $Z$ are coplanar.                                 |
| 5. $\overrightarrow{YW}$ and $\overrightarrow{YD}$ are collinear. | 6. $\overrightarrow{YW}$ and $\overrightarrow{YD}$ are coplanar. |
| 7. $\overrightarrow{YX}$ and $\overrightarrow{YZ}$ are collinear. | 8. $\overrightarrow{YX}$ and $\overrightarrow{YZ}$ are coplanar. |



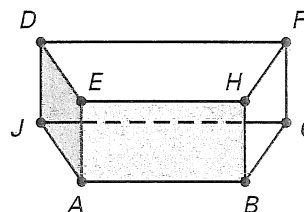
Name a point that is collinear with the given points.

- |                 |                 |
|-----------------|-----------------|
| 9. $B$ and $E$  | 10. $F$ and $E$ |
| 11. $D$ and $G$ | 12. $A$ and $C$ |
| 13. $G$ and $E$ | 14. $F$ and $C$ |
| 15. $A$ and $D$ | 16. $B$ and $C$ |



Name a point that is coplanar with the given points.

- |                     |                     |
|---------------------|---------------------|
| 17. $J, A,$ and $E$ | 18. $B, C,$ and $J$ |
| 19. $D, E,$ and $A$ | 20. $H, E,$ and $A$ |
| 21. $A, B,$ and $H$ | 22. $A, B,$ and $C$ |
| 23. $F, H,$ and $B$ | 24. $D, E,$ and $H$ |



Sketch the lines, segments, and rays. Label your sketch.

- Draw four noncollinear points  $A, B, C,$  and  $D$ . Then sketch  $\overleftrightarrow{AB}, \overleftrightarrow{BC}, \overleftrightarrow{CD},$  and  $\overleftrightarrow{DA}$ .
- Draw five noncollinear points  $M, N, O, P,$  and  $Q$ . Then sketch  $\overrightarrow{MN}, \overrightarrow{OP}, \overrightarrow{PQ}, \overleftarrow{MP},$  and  $\overline{NO}$ .
- Draw three collinear points  $H, I,$  and  $J$  with  $I$  between  $H$  and  $J$ . Add a point  $K$  between  $I$  and  $J$ .
- Draw two points  $S$  and  $T$ . Then sketch  $\overrightarrow{ST}$ . Add a point  $U$  on the ray so that  $T$  is between  $S$  and  $U$ .

Sketch the figure described, if possible.

- Three points that are collinear but not coplanar.
- Three lines that intersect at a single point.
- Three lines that intersect at two points.
- Three lines that do not intersect.
- Two planes that intersect.
- Two planes that do not intersect.
- Two rays that intersect at their initial points.
- Two collinear rays that do not intersect.