Practice C

For use with pages 10–16
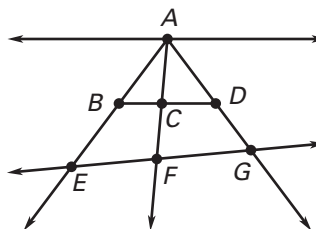
Decide whether the statement is *true* or *false*.

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.

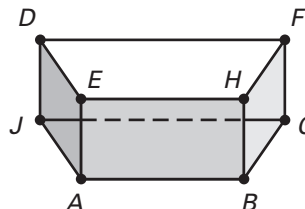**8.** $\overrightarrow{YX}$ and $\overrightarrow{YZ}$ are coplanar.
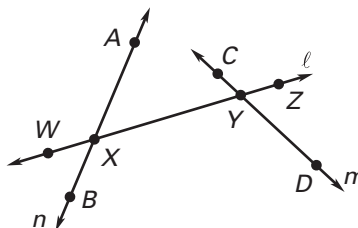
Name a point that is collinear with the given points.

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.

25. Draw four noncollinear points *A*, *B*, *C*, and *D*. Then sketch $\overleftrightarrow{AB}$, $\overrightarrow{BC}$, $\overrightarrow{CD}$, and $\overline{DA}$.

26. Draw five noncollinear points *M*, *N*, *O*, *P*, and *Q*. Then sketch $\overline{MN}$, $\overrightarrow{OP}$, $\overrightarrow{PQ}$, $\overleftrightarrow{MP}$, and $\overline{NO}$.

27. Draw three collinear points *H*, *I*, and *J* with *I* between *H* and *J*. Add a point *K* between *I* and *J*.

28. 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.

29. Three points that are collinear but not coplanar.

30. Three lines that intersect at a single point.

31. Three lines that intersect at two points.

32. Three lines that do not intersect.

33. Two planes that intersect.

34. Two planes that do not intersect.

35. Two rays that intersect at their initial points.

36. Two collinear rays that do not intersect.

Lesson 1.2