Practice 1-3

Segments, Rays, Parallel Lines, and Planes

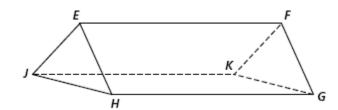
Write true or false.

- **1.** \overrightarrow{XY} is the same as \overrightarrow{YX} .
- **3.** If \overrightarrow{AB} and \overrightarrow{AC} are opposite rays, then they form a line.
- **5.** If the union of two rays is a line, then the rays are opposite rays.

Refer to the diagram at the right.

- **7.** Name all segments parallel to \overline{EF} .
- **8.** Name all segments parallel to \overline{FG} .
- **9.** Name three pairs of skew lines.

- 2. \overrightarrow{XY} is the same as \overrightarrow{YX} .
- **4.** If two rays have the same endpoint, then they are collinear.
- **6.** If \overrightarrow{PQ} and \overrightarrow{PR} are the same rays, then Q and *R* are the same point.



Refer to the diagram at the right.

- **10.** Which pair(s) of planes is (are) parallel?
- **11.** Which pair(s) of planes intersect?
- **12.** Which planes intersect in \overrightarrow{MN} ?
- 13. Which planes intersect in \overline{RS} ?

Refer to the diagram at the right.

- **14.** Name \overrightarrow{EF} in another way.
- **15.** How many different segments can be named?
- **16.** Name a pair of opposite rays with E as an endpoint.
- 17. Name in two different ways the ray opposite \overrightarrow{FG} .
- **18.** Name \overrightarrow{GE} in two other ways.
- **19.** Are \overline{EG} and \overline{GE} the same segment?

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Draw each of the following.

- **20.** parallel planes S, T, and U
- **21.** planes R and W intersecting in \overrightarrow{PQ}