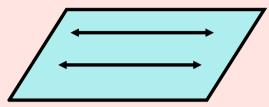
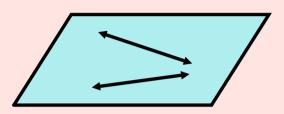
Geometry

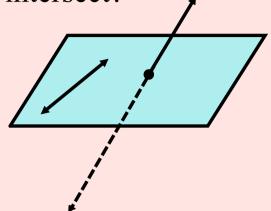
Ch. 1 Handout 1.4 Segments, Rays, Parallel lines, and Planes

Do Now

Judging by appearance will the lines intersect?







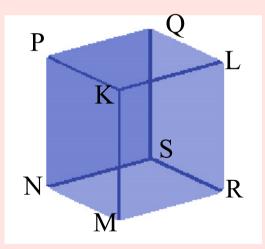
Name the plane represented by each surface of the box.

The bottom:

The top:

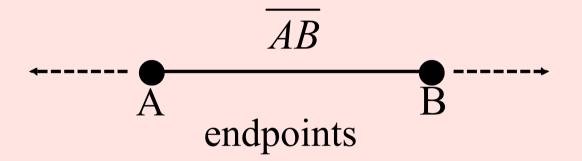
A pair of parallel planes:

A pair of planes that intersect:



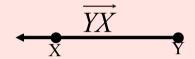
Segment

--is the part of a line consisting of two endpoints and all points between them.



Ray

--is the part of a line consisting of one endpoint and al the points of the line on one side of the endpoints.



Opposite Rays

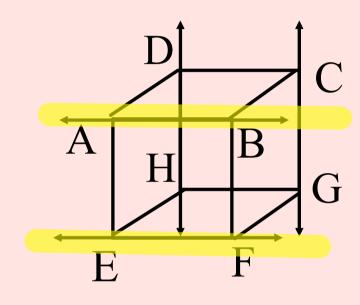
--two collinear rays with the same endpoint *opposite rays always form a line



 \overrightarrow{RQ} and \overrightarrow{RS} are opposite rays

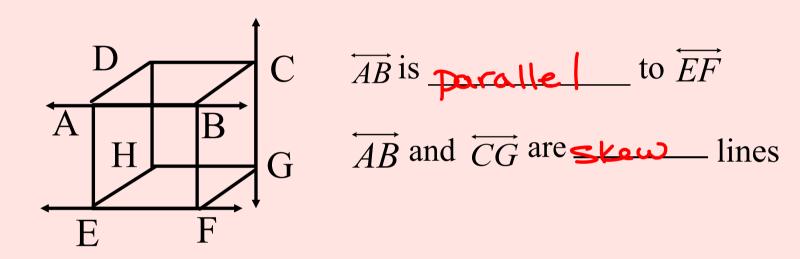
Parallel lines (11)

-are coplanar lines that do not intersect.



Skew lines

--are noncoplanar; therefore, they are not parallel and do not intesect.



Parallel planes

-- are planes that do not intersect.



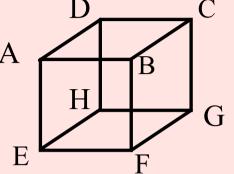
Plane ABCD is to plane GHIJ

1. Name the segment and rays in the figure.



- 2. Use the figure at the right.
- a) Parallel segments lie in the same plane, and the lines that contain them do not intersect. Name all segments that are parallel to \overrightarrow{AE} .

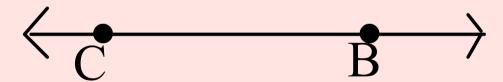




b) Skew segments are segments that do not lie in the same plane. Name all segments that are skew to \overrightarrow{AE} .

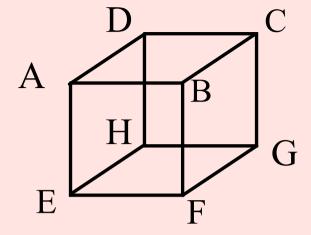
3. Planes are parallel if they the intersect dentify a pair of parallel planes in this classroom.

4. In the figure, \overrightarrow{CB} and \overrightarrow{BC} form a line. Are they opposite rays? Explain.



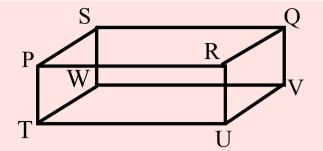
No; don't have some endpoint

- 5. Use the diagram at the right.
- a) Name all labeled segments that are parallel to \overline{GF} .



- b) Name all labeled segments that are skew to \overline{GF} .
- c) Name another pair of parallel segments and anotherpair of skew segments

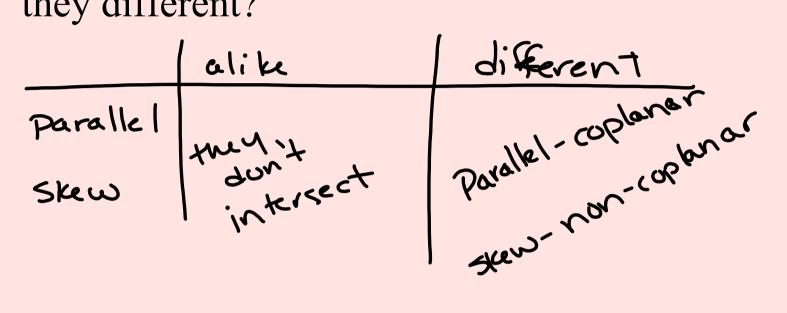
- 6. Use the diagram at the right.
 - a) Name three pairs of parallel lines.



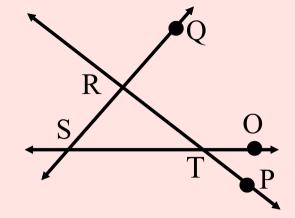
b) Name a line that is parallel to \overrightarrow{PQ} .

c) Name a line that is parallel to plane QRUV.

7. How are parallel and skew lines alike? How are they different?



- 8. Use the diagram at the right.
 - a) Name the segments that form a triangle.



b) Name the rays that have point T as their endpoints.

Assignment

1.4 Pgs 25-28 1-7all, 10-23 all, 25-34 all, 43,44,47-49 all