

3-1 Study Guide and Intervention

Parallel Lines and Transversals

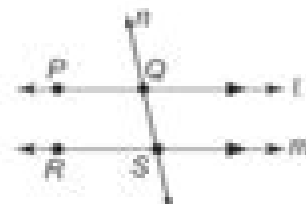
Relationships Between Lines and Planes

When two lines lie in the same plane and do not intersect, they are **parallel**.

Lines that do not intersect and are not coplanar are **skew lines**.

In the figure, ℓ is parallel to m , or $\ell \parallel m$. You can also

write $\overleftrightarrow{PQ} \parallel \overleftrightarrow{RS}$. Similarly, if two planes do not intersect, they are **parallel planes**.



Example

Refer to the figure at the right to identify each of the following.

- a. all planes parallel to plane ABD

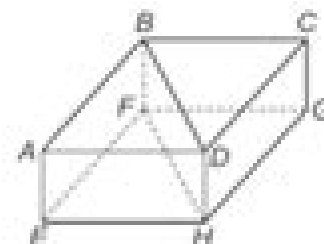
plane EFH

- b. all segments parallel to $\overleftrightarrow{CG}$

$\overleftrightarrow{BF}$, $\overleftrightarrow{DH}$, $\overleftrightarrow{AE}$

- c. all segments skew to $\overleftrightarrow{EH}$

$\overleftrightarrow{BF}$, $\overleftrightarrow{CG}$, $\overleftrightarrow{BD}$, $\overleftrightarrow{CD}$, and $\overleftrightarrow{AB}$



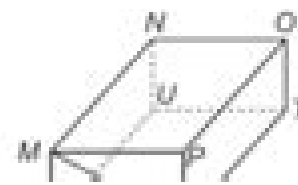
Exercises

Refer to the figure at the right to identify each of the following.

1. all planes that intersect plane OPT

2. all segments parallel to $\overleftrightarrow{NU}$

3. all segments that intersect $\overleftrightarrow{MP}$



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KJ Lindholm-Leary



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