

Study Guide

Student Edition
Pages 142–147

Parallel Lines and Planes

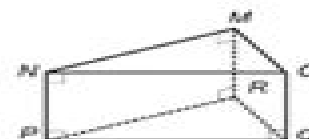
When planes do not intersect, they are said to be **parallel**. Also, when lines in the same plane do not intersect, they are parallel. But when lines are not in the same plane and do not intersect, they are **skew**.

Example: Name the parts of the triangular prism shown at the right. Sample answers are given.

parallel planes: planes PQR and NOM

parallel segments: $\overline{MO}$ and $\overline{RQ}$

skew segments: $\overline{MN}$ and $\overline{RQ}$



Refer to the figure in the example.

1. Name two more pairs of parallel segments.

Sample answers: $\overline{MN}$ and $\overline{RP}$, $\overline{NO}$ and $\overline{PQ}$, $\overline{NP}$ and $\overline{MR}$, $\overline{NP}$ and $\overline{OQ}$, $\overline{MR}$ and $\overline{OQ}$

2. Name two more segments skew to $\overline{NM}$.

PQ, OQ

3. Name a segment that is parallel to plane MRQ . **$\overline{NP}$**

Name the parts of the hexagonal prism shown at the right.

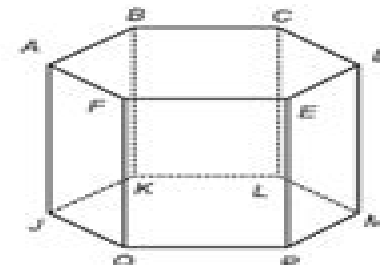
4. three segments that are parallel to $\overline{BC}$ **$\overline{FE}$, $\overline{QP}$, $\overline{KL}$**

5. three segments that are parallel to $\overline{JK}$ **$\overline{AB}$, $\overline{MP}$, $\overline{DE}$**

6. a segment that is skew to $\overline{QP}$

Sample answers: $\overline{AJ}$, $\overline{AF}$, and $\overline{DE}$

7. the plane that is parallel to plane AJQ **plane CDM**



Geometry Final Study Guide Answer Key

Michael Brown

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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ansi aisc 360 16 specification for structural steel buildings - Feb 11 2023

web ansi accredited procedures to provide a uniform practice in the design of steel framed buildings and other structures the intention is to provide design criteria for routine use and not to provide specific criteria for infrequently encountered problems which occur in the full range of structural design