

HW
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Geometry

Chapter 3
Section 3-1

Vocabulary

Parallel Lines Coplanar lines that do not intersect (marked as \parallel or $//$)

Parallel Planes Planes that do not intersect

Skew Lines Noncoplanar lines that do not intersect

Transversal Line that intersects two coplanar lines at distinct points

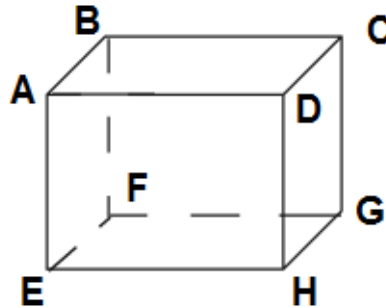
Parallel and Skew

Name the segments parallel to \overline{AB}

*Assume lines and planes that appear to be parallel are parallel

Name the segments skew to \overline{HD}

Name a plane parallel to $\square ABF$



DC, HG, EF

BC, EF, FG, AB

CDH

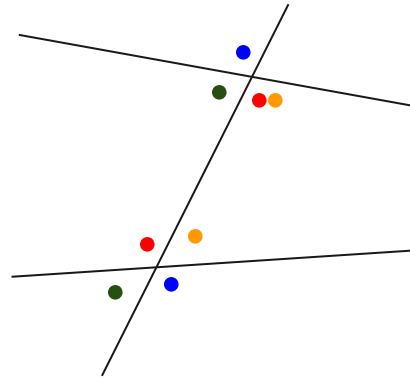
Transversals

Alternate Interior Angles

Same-side Interior Angles

Corresponding Angles

Alternate Exterior Angles



Identifying Angle Pairs

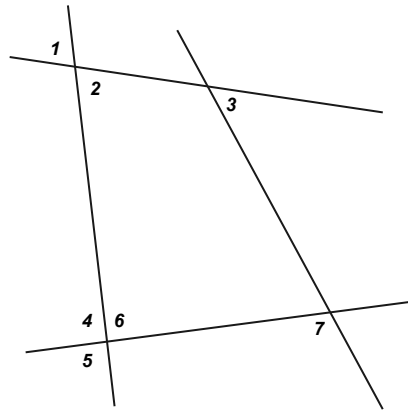
Identify...

All Alternate Interior Angles.

All Alternate Exterior Angles.

All Same-side Interior Angles.

All Corresponding Angles.



2 & 4, 6 & 7

1 & 3

2 & 6

1 & 4, 2 & 3, 5 & 7

Critical Thinking

Reasoning: You have a ladder made up of two sides and rungs stretching between the sides. Would you expect the rungs to be parallel? Do a rung and a side make up a pair of skew lines?

Visualization: If two planes are parallel, must all lines within those planes be parallel?

Yes. No.

No. Some may be skew.

Homework

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