

A postulate or axiom is an accepted statement of fact. Postulates, like undefined terms, are basic building blocks of the logical system in geometry. You will use logical reasoning to prove general concepts in this book.

## Postulate 1-1

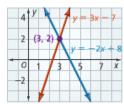
Through any two points there is exactly one line.

Line t passes through points A and B. Line t is the only line that passes through both points.



When you have two or more geometric figures, their intersection is the set of points the figures have in common.

This is an example of an intersection that you should be familiar with from Algebra 1.





## Postulate 1-2

If two distinct lines intersect, then they intersect in exactly one point.  $\overrightarrow{AE}$  and  $\overrightarrow{DB}$  intersect in point C.

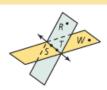




## Postulate 1-3

If two distinct planes intersect, then they intersect in exactly one line.

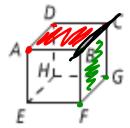
Plane RST and plane WST intersect in  $\overrightarrow{ST}$ .





## Problem 3 Finding the Intersection of Two Planes

Each surface of the box at the right represents part of a pland What is the intersection of plane ADC and plane BFG?

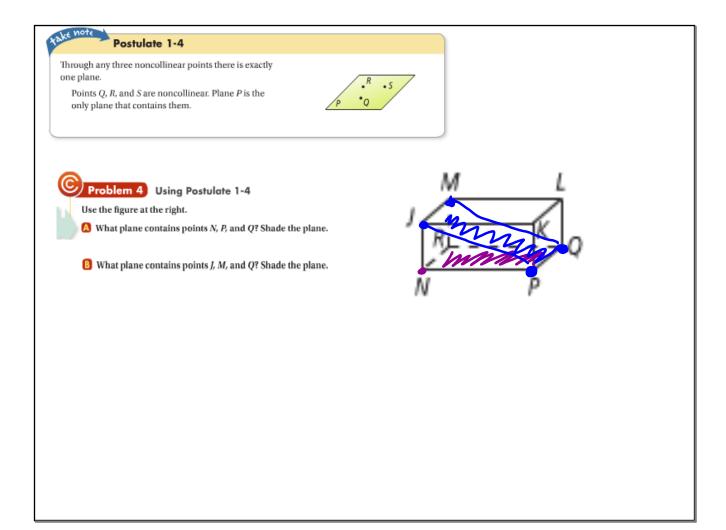








When you name a plane from a figure like the box in Problem 3, list the corner points in consecutive order. For example, plane ADCB and plane ABCD are also names for the plane on the top of the box. Plane ACBD is not.



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Name
12
pg. 16-19 #8-14
16-26 even
27-32
40-45
53-58
65-68
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