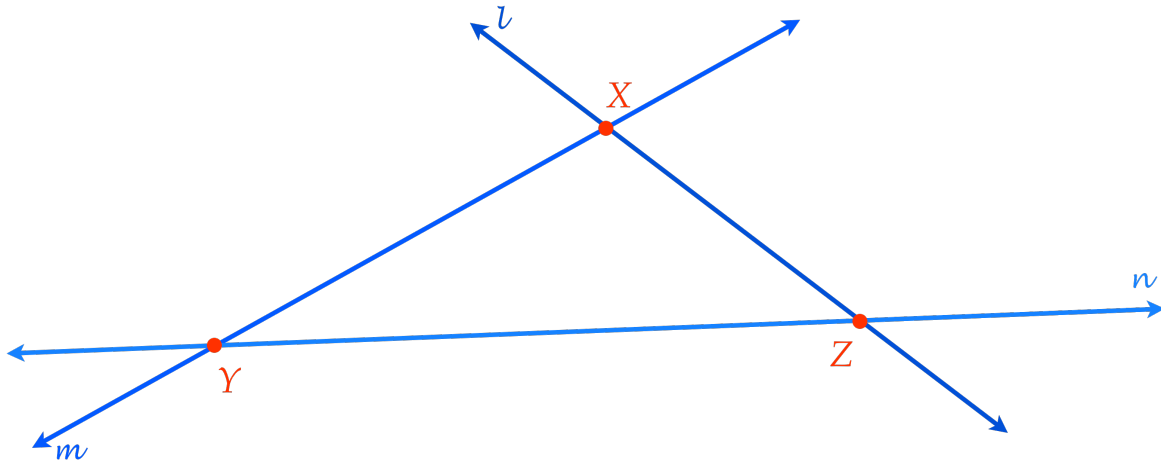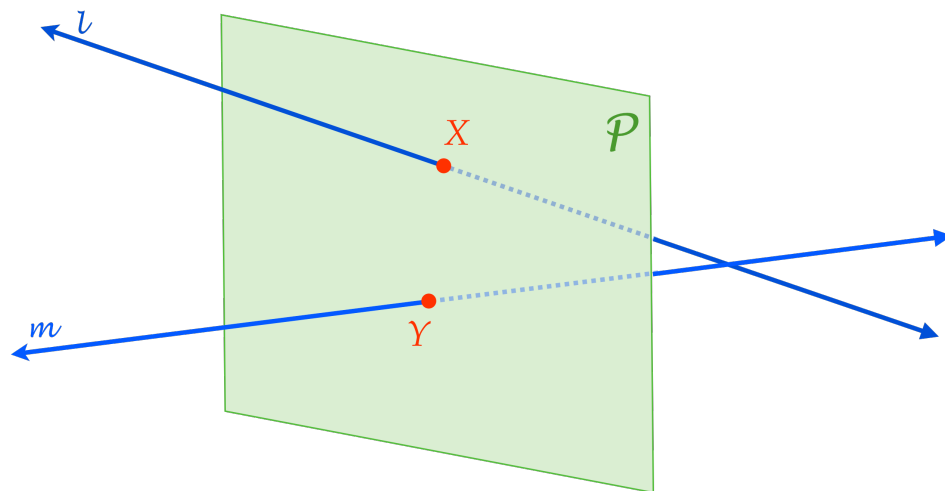# The Intersection of Two Different Lines.

Two lines in the same plane intersect at exactly one point.

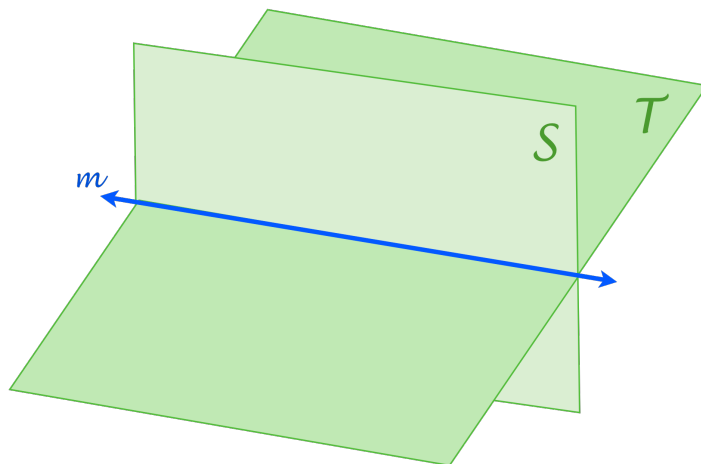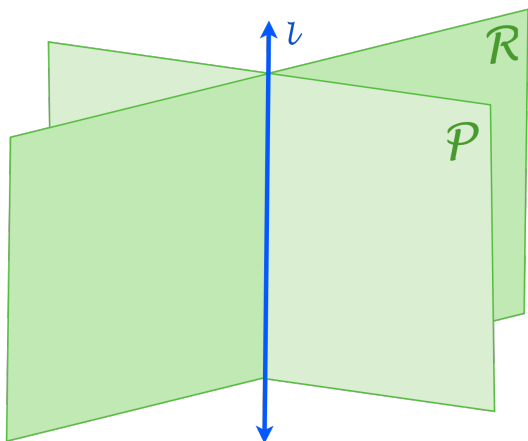# The Intersection of Plane and a Line, not in the Plane.

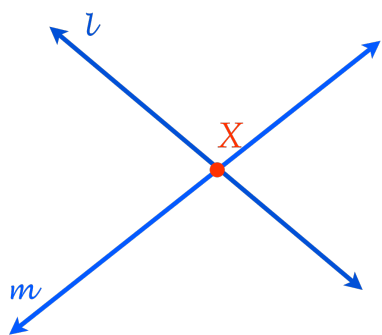A plane and a line, not in the plane, intersect at exactly one point.

The Intersection of Two Different Planes.
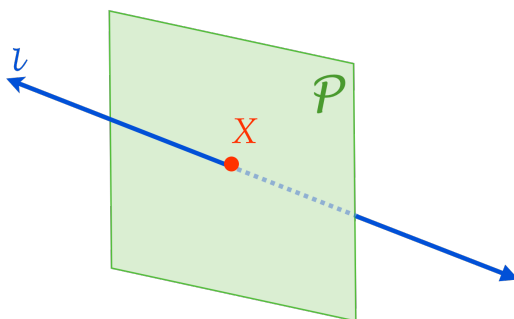## The intersection of two planes is a line.

𝓡 𝓁 𝓟

𝓢 𝓣 𝑚

Two lines intersect at exactly one point.

𝓁 X 𝑚
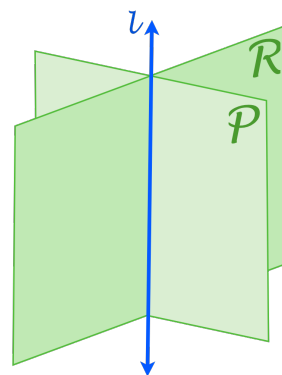
Line 𝓁 and Line 𝑚 intersect at point X.

A plane and a line, not in the plane, intersect at exactly one point.

𝓁 X 𝓟

Plane P and Line 𝓁 intersect at point X.

The intersection of two planes is a line.

𝓁 𝓡 𝓟

Plane P and Plane R intersect at Line 𝓁