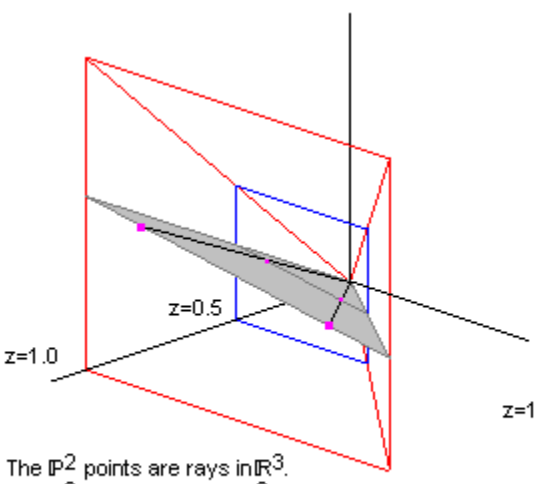
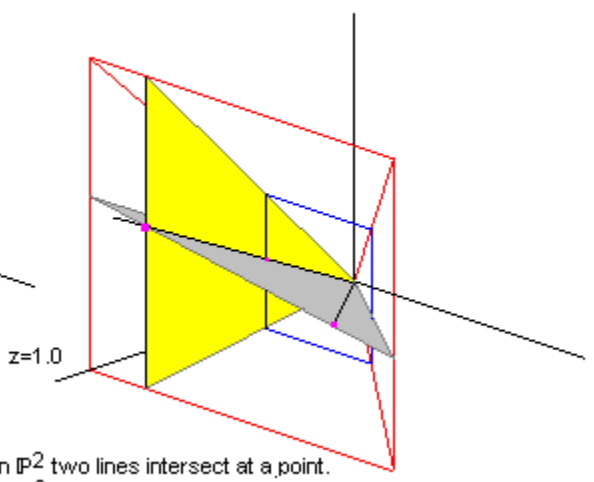


The $\mathbb{P}^2$ points are rays in $\mathbb{R}^3$.
The $\mathbb{P}^2$ line is a plane in $\mathbb{R}^3$.
Two points define a line in $\mathbb{P}^2$.
Two rays define a plane in $\mathbb{R}^3$.



In $\mathbb{P}^2$ two lines intersect at a point.
In $\mathbb{R}^3$ two planes intersect at a ray.