

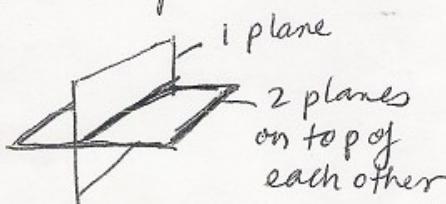
System of 3 equations - 4 solution sets

1. The 3 planes intersect in a single point



- one solution

2. The 3 planes intersect in a single line



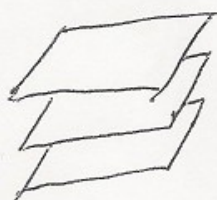
- inf. many solutions, form of a line

3. All 3 planes lie on top of each other



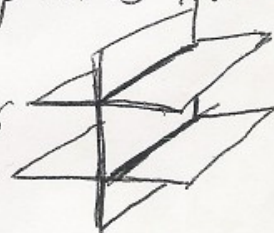
- inf. many solutions, form of a plane

4. There is no point where all 3 planes intersect

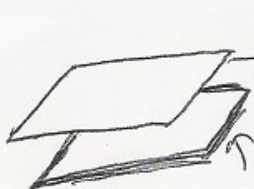


3 parallel planes
- no intersection

parallel



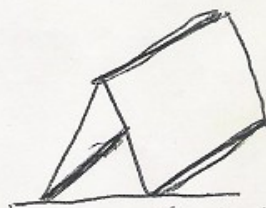
2 separate lines of intersection



one plane separate

2 planes on top of each other

parallel



3 separate lines of intersection

- no solution