Some Review Questions - Quiz #15 - LAST ONE

1. Cutting a plane along three lines breaks it into how many pieces? Give all possible answers; for each, draw a sketch and number your regions.
1 2 3 4 or 2 3 or 4 3 3 or 2 3 de 1 2
(5's not possible, but you can do is keep to go all lines but one paulled, raking to regions.)
2. (a) Cutting a plane along four parallel lines breaks it into pieces.
Cutting a plane along n parallel lines breaks it into pieces.
3. (a) Cutting a plane along four concurrent lines breaks it into pieces.
(b) Cutting a plane along n concurrent lines breaks it into pieces.
4. How many concurrent lines would you need
(a)if you wanted to cut the plane into 18 regions?
9 lines
(b) What if you wanted to make 108 regions? 54 Lines
(c) What if you wanted to make 107 regions?
5. How many parallel lines would you need
.5 (a)if you wanted to cut the plane into 18 regions?
(b) What if you wanted to make 108 regions? 107 Lines
(c) What if you wanted to make 107 regions?