L2 (IUM, Spring) Polytope Algebra	Feb 16, 2021
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rectif.	

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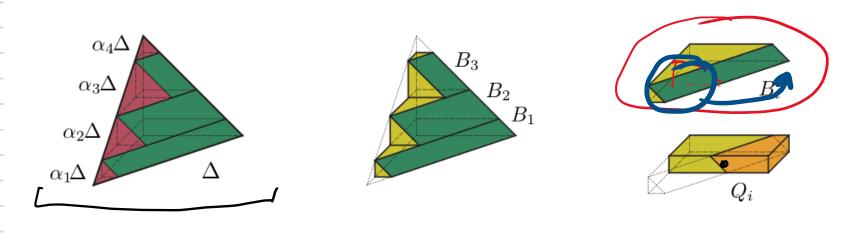
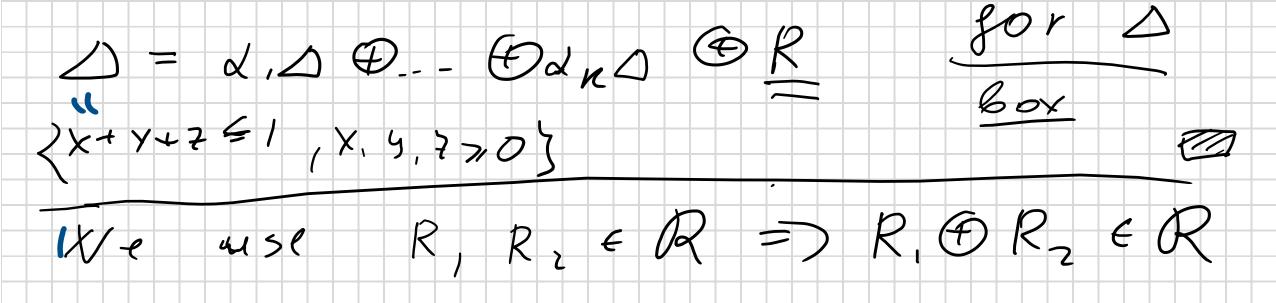
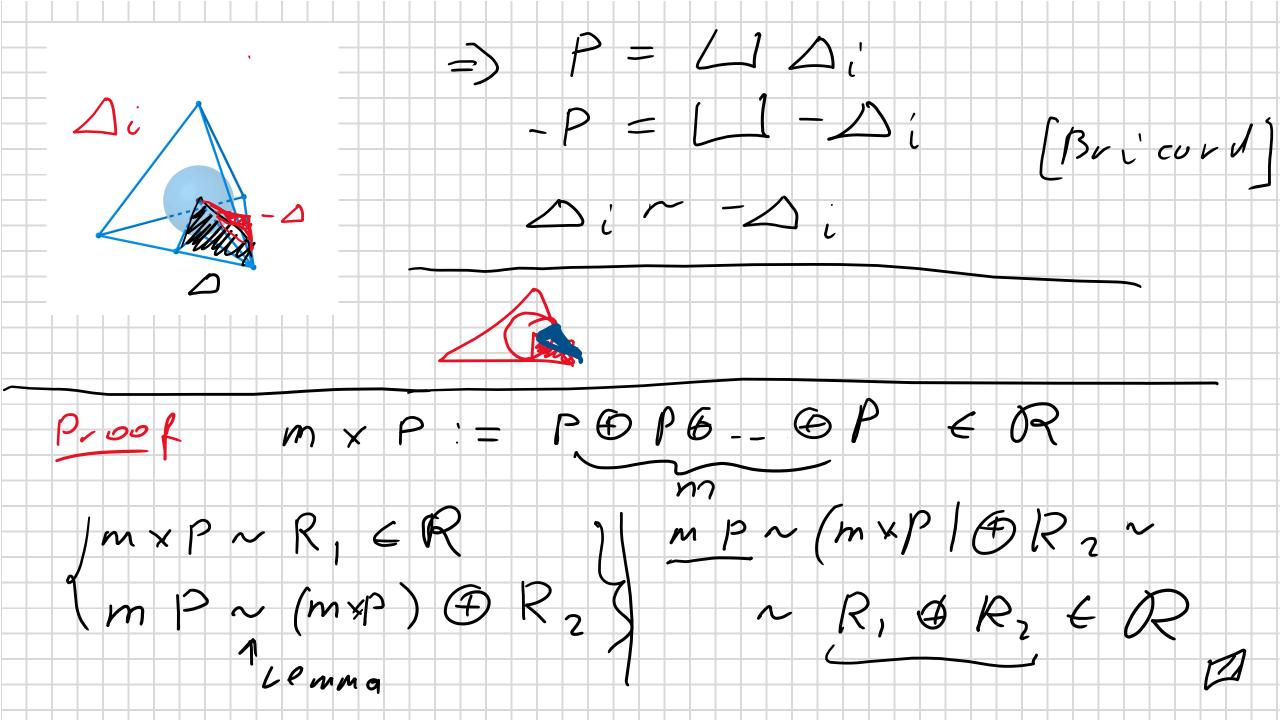


FIGURE 16.1. Layers $B_i \cup \alpha_i \Delta$ and scissor congruence $B_i \sim Q_i$.

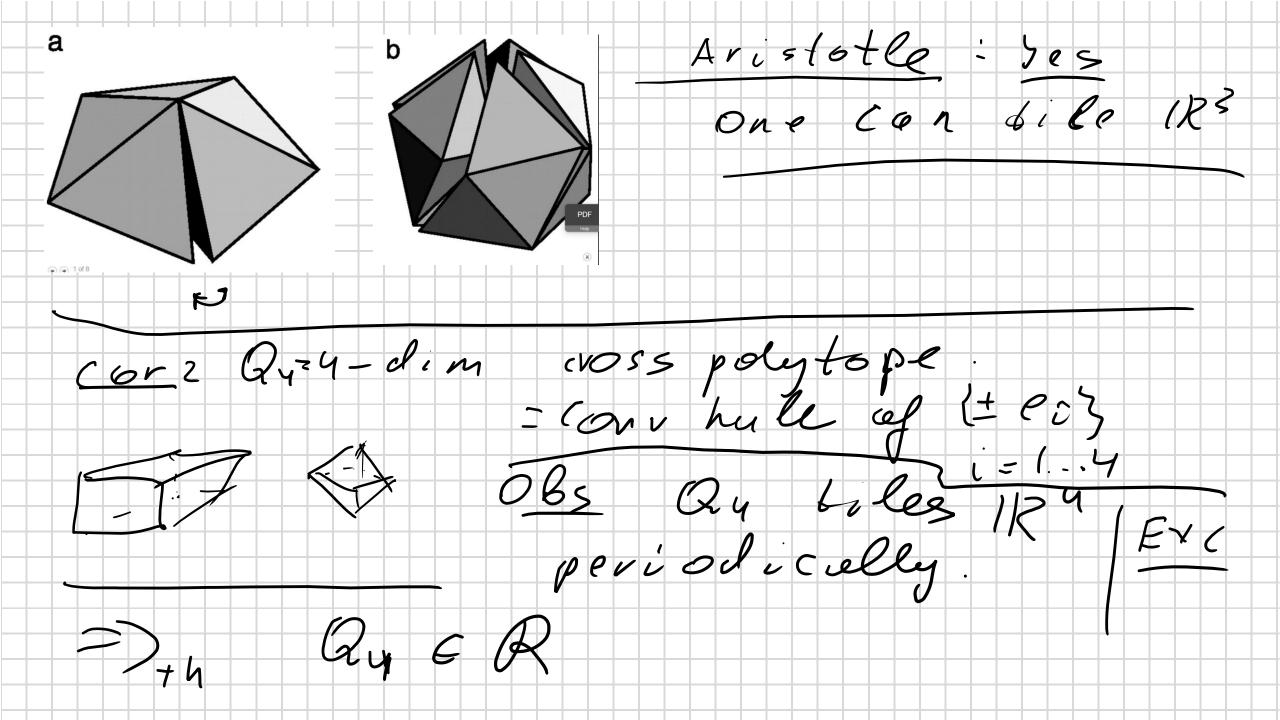


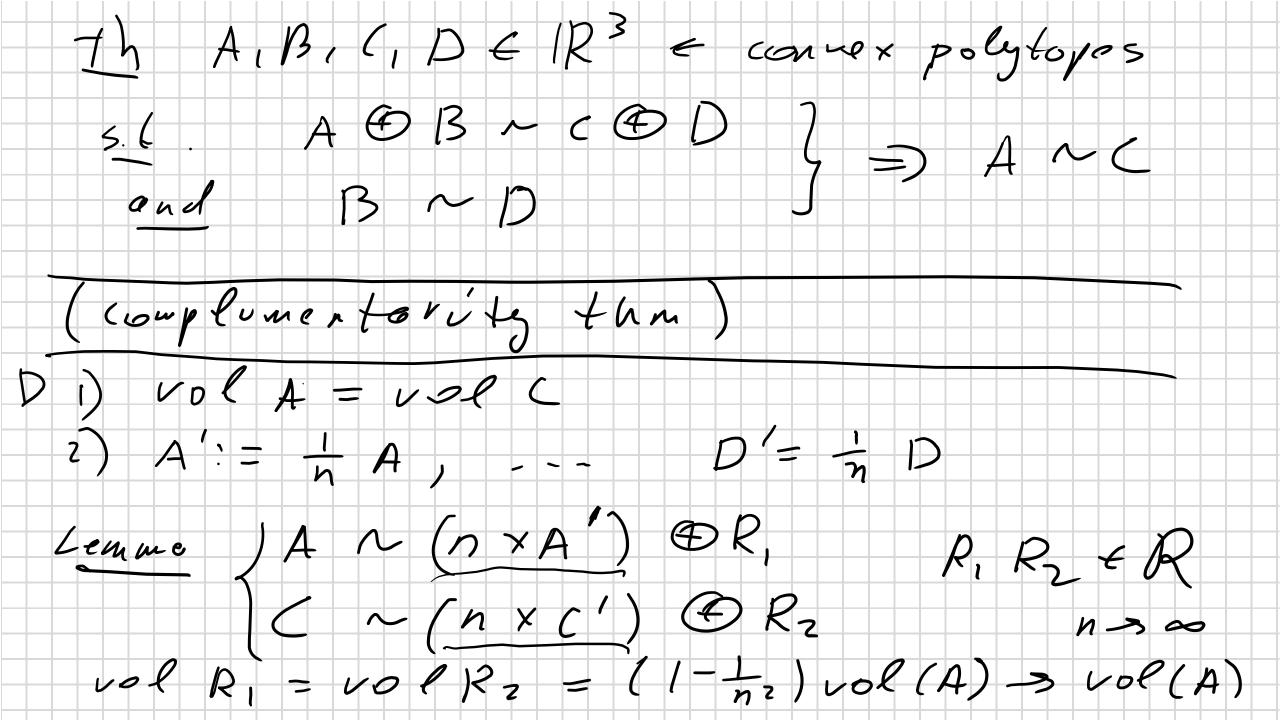
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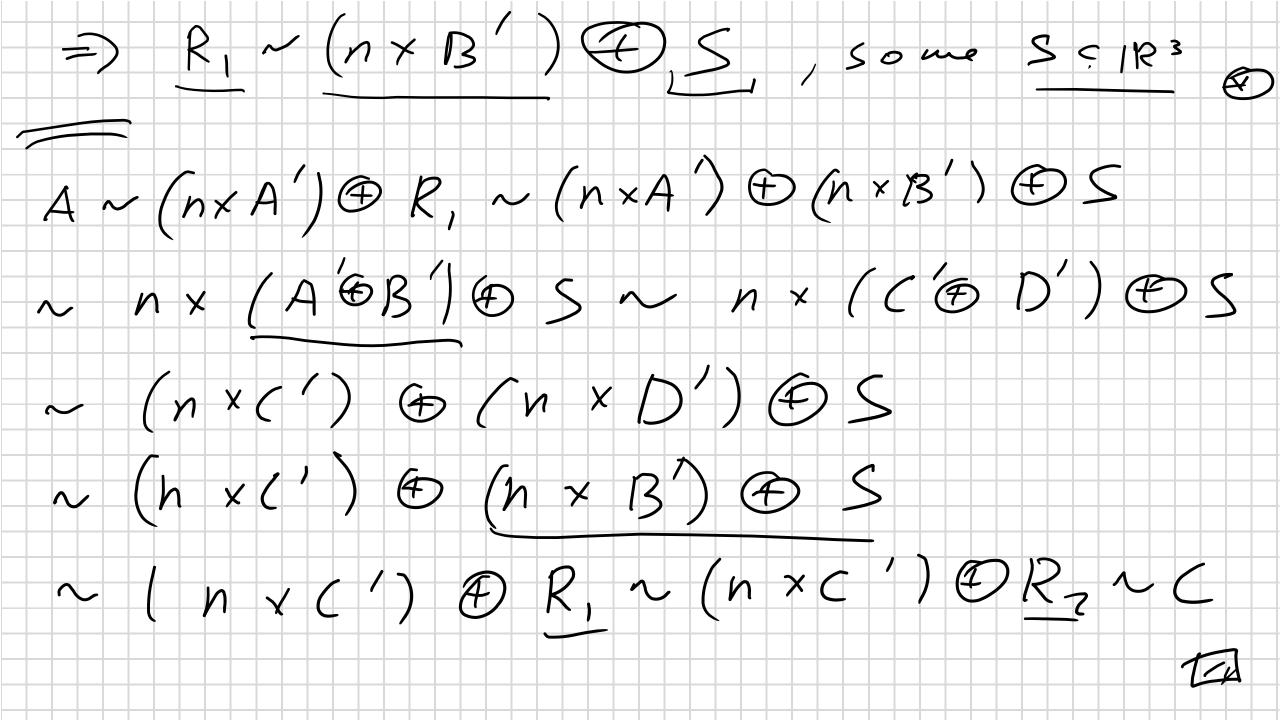
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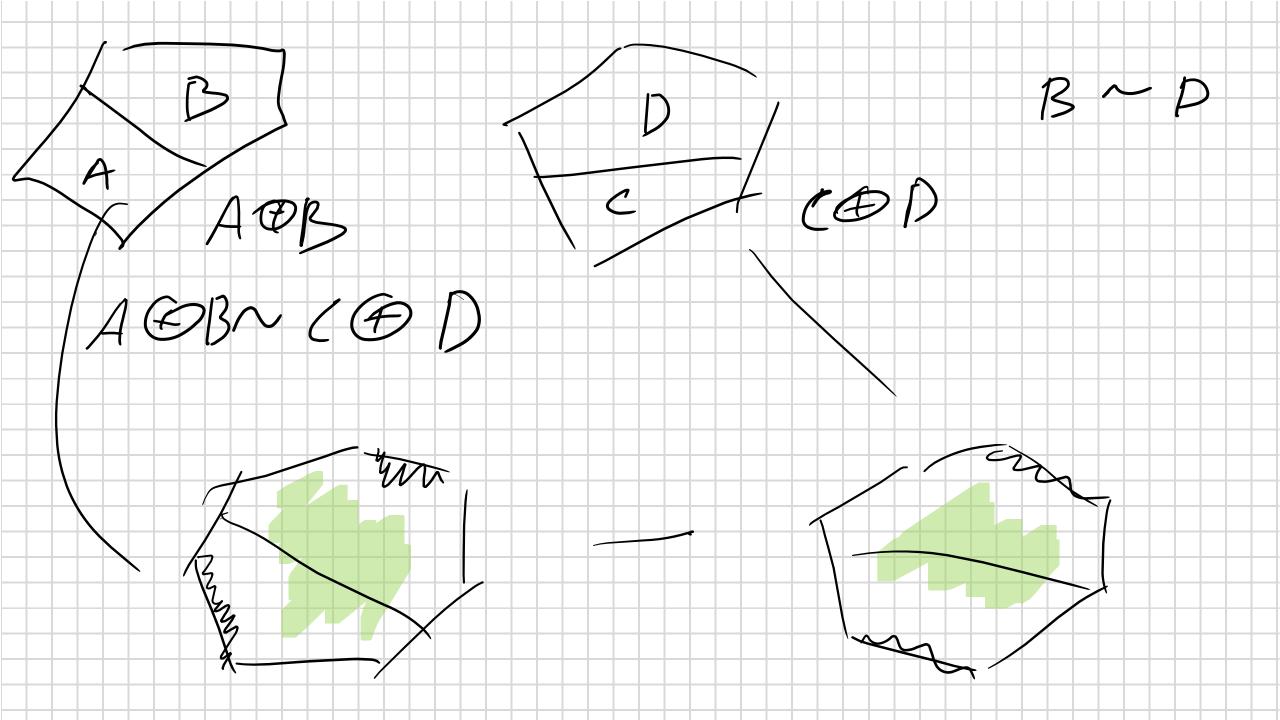


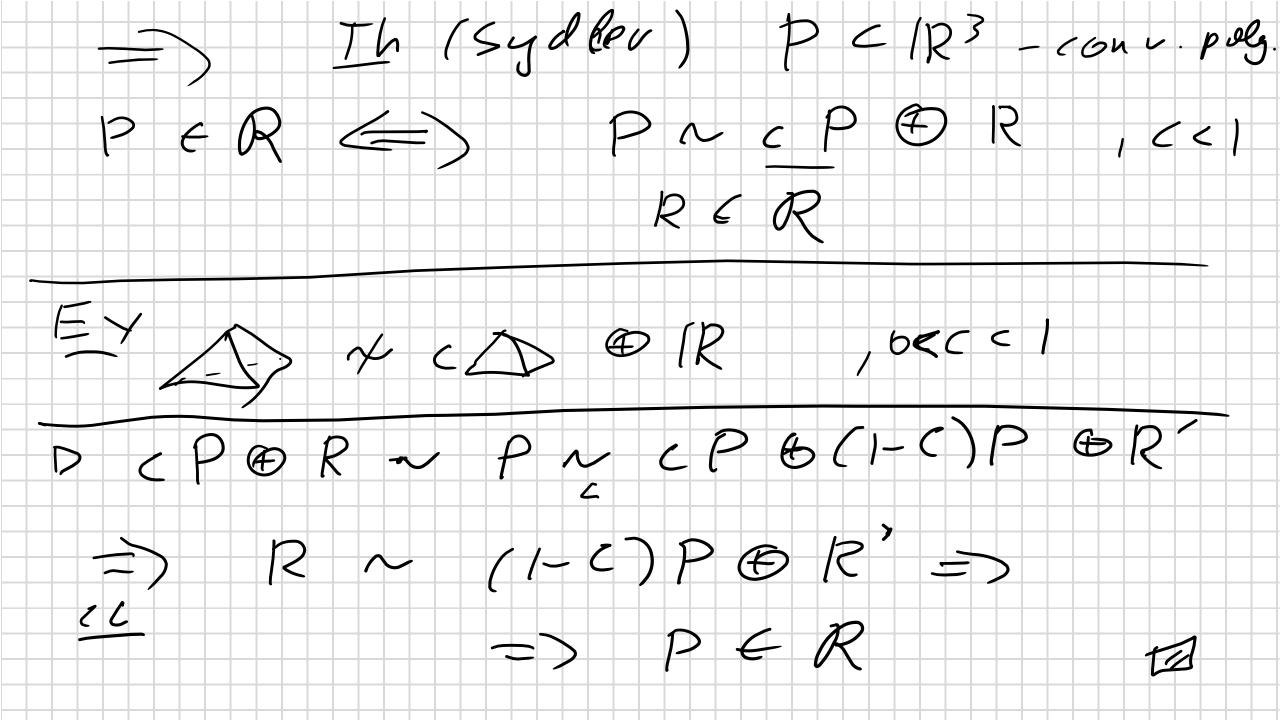
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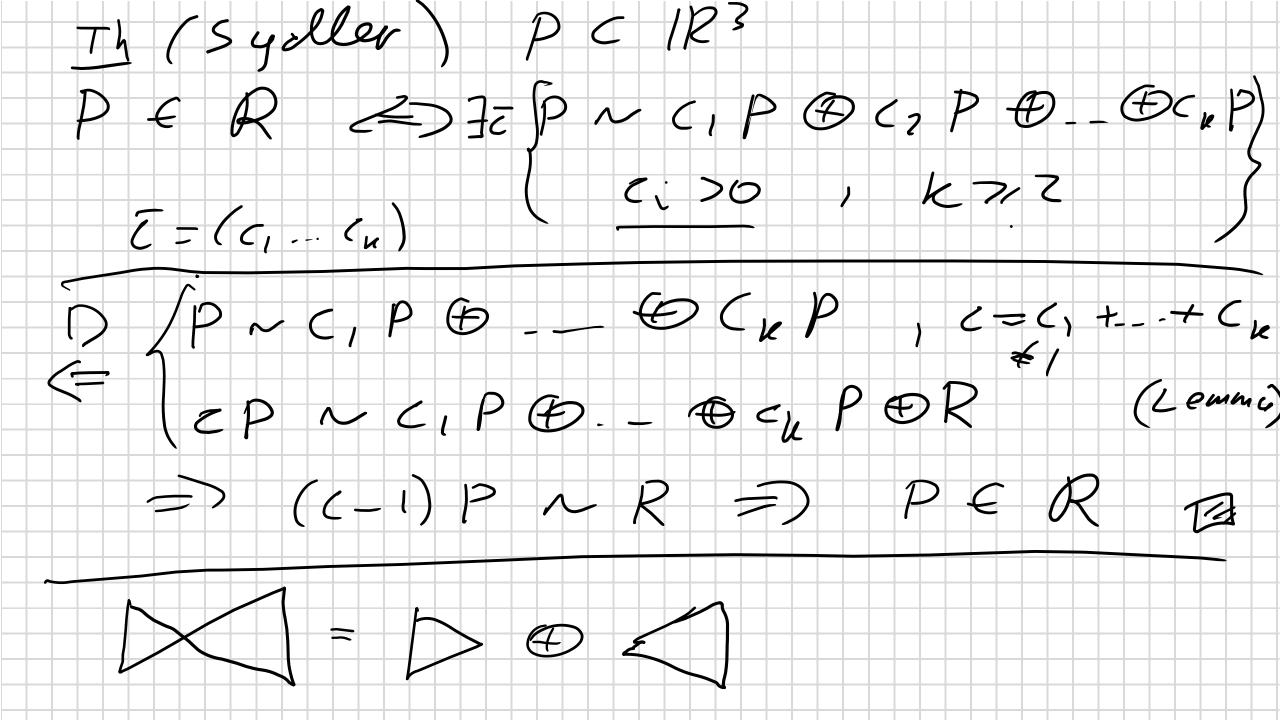


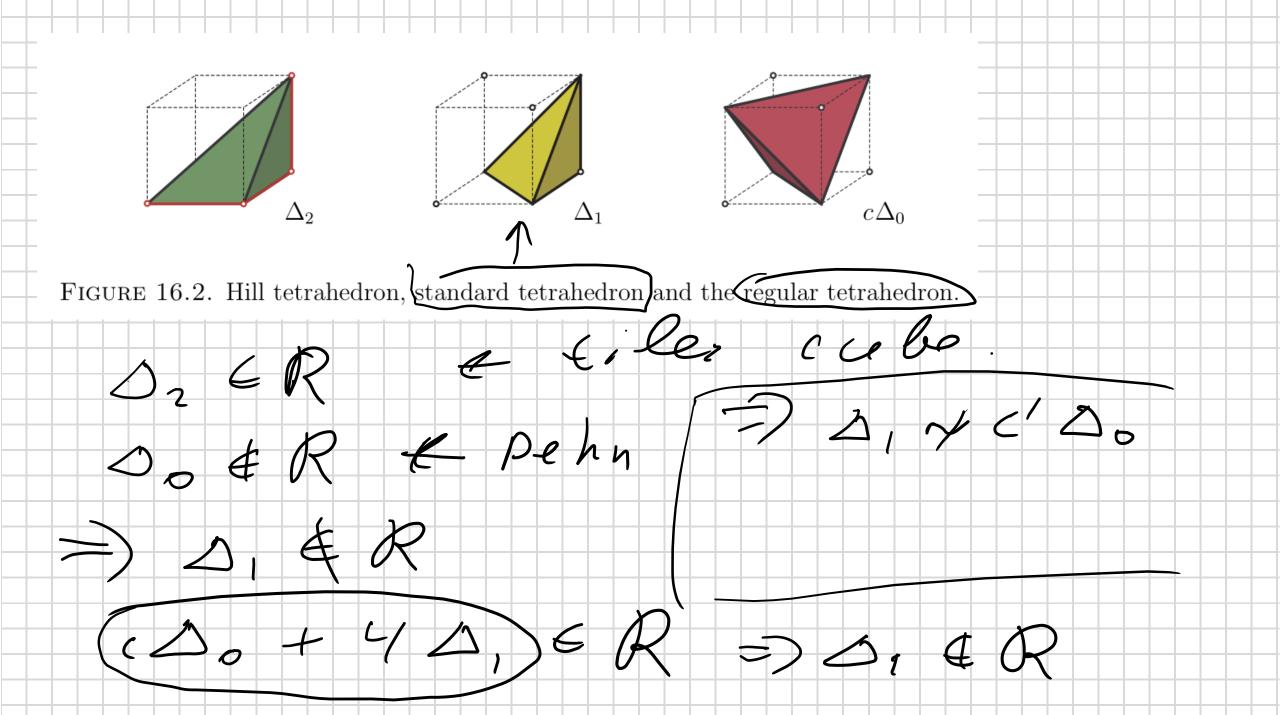












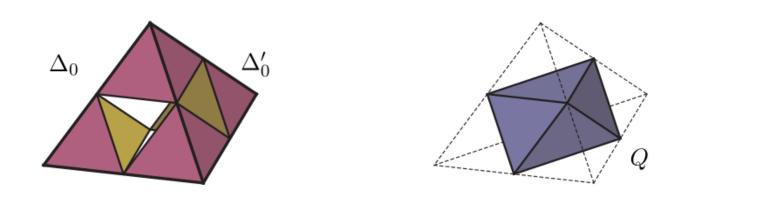
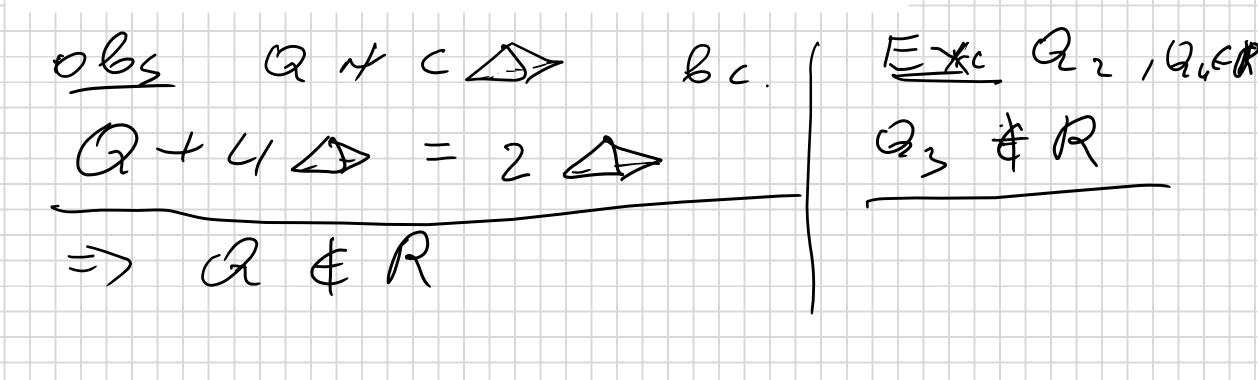
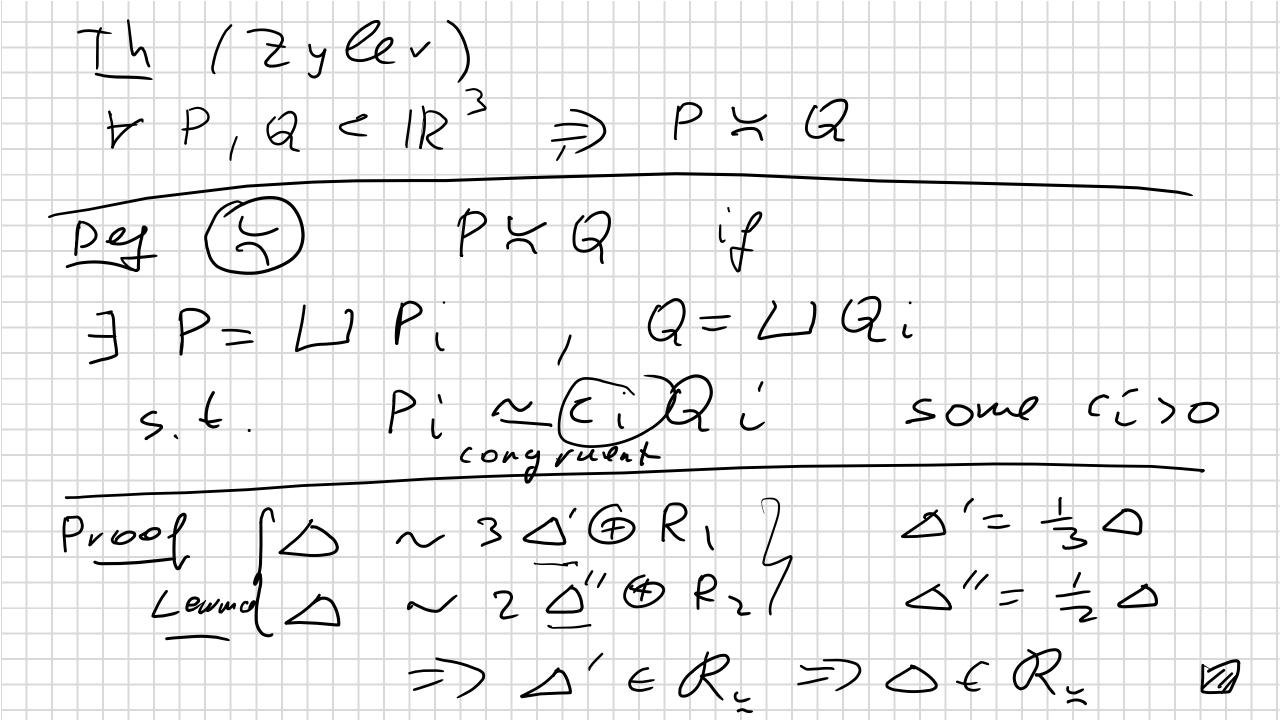
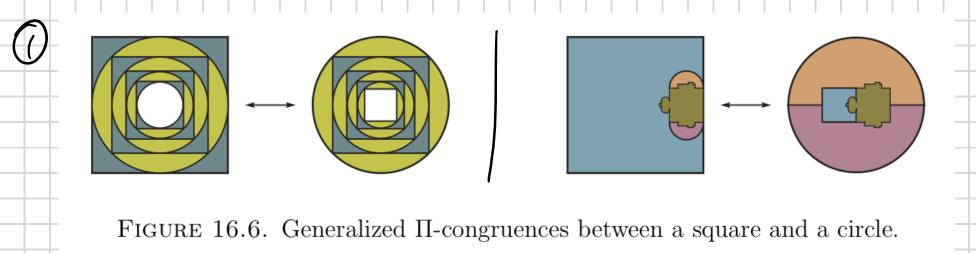
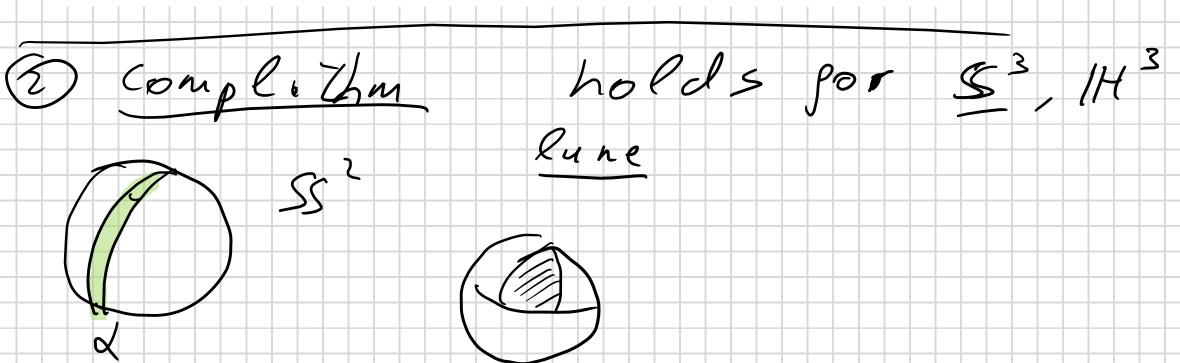


FIGURE 16.3. Octahedron Q and four tetrahedra Δ'_0 tile tetrahedron Δ_0 .









Theorem 41.1 (Girard's formula). Let T be a spherical triangle with angles α, β and γ . Then area $(T) = \alpha + \beta + \gamma - \pi$.

