

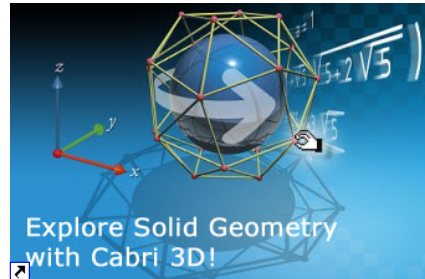


Park City Mathematics Institute

Secondary School Teachers Program (SSTP)

Cabri 3D
5-minute short
Steve Phelps
Cincinnati e-table

email me at
sphelps@madeiracityschools.org



Where to get it!

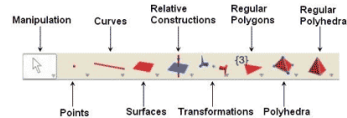
<http://www.chartwellyorke.com/cabri3d/cabri3d.html>



What are you waiting for?

CABRI® 3D Interactive Geometry Download a demo!

<http://www.chartwellyorke.com/cabri3d/demo.html>



A good
introduction/tutorial

<http://www.chartwellyorke.com/cabri3d/introtocabri3d.htm>

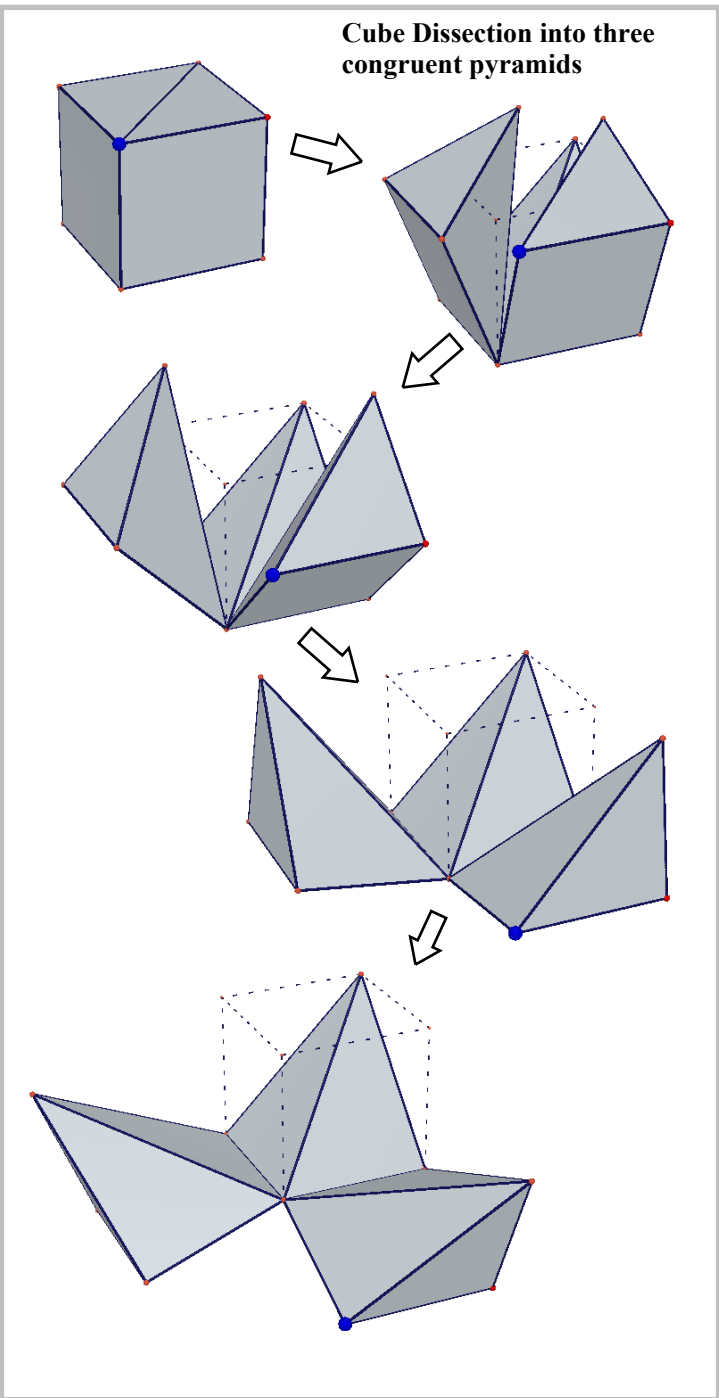


<http://www.m-a.org.uk/cabri/>

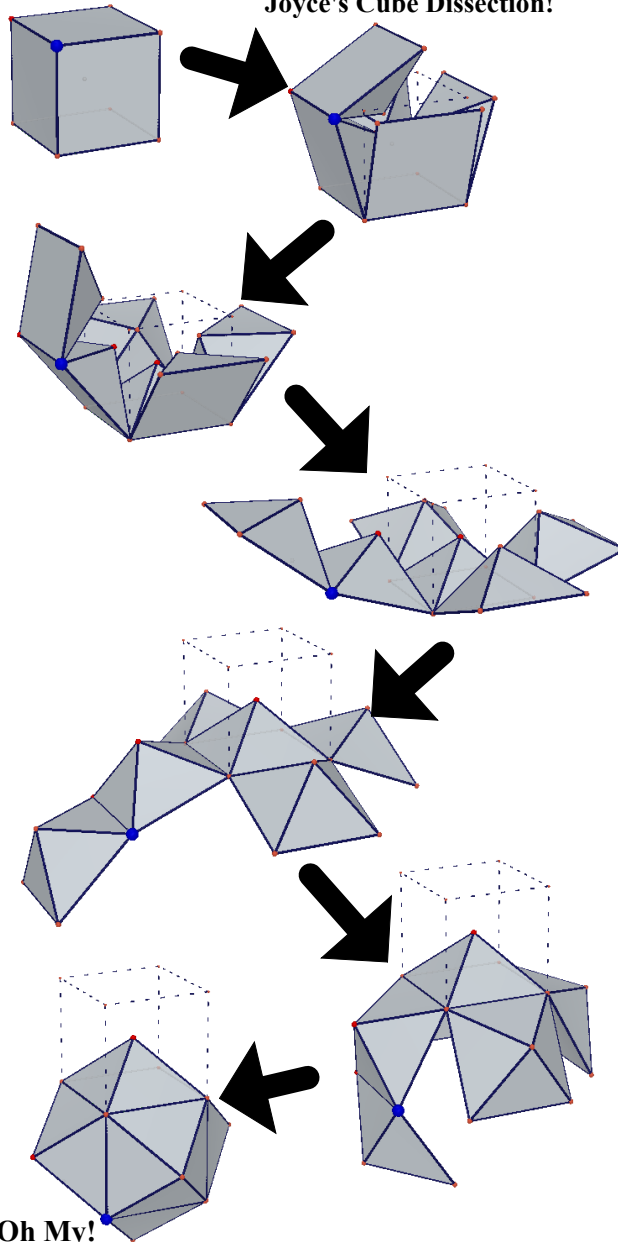
Some good tutorials



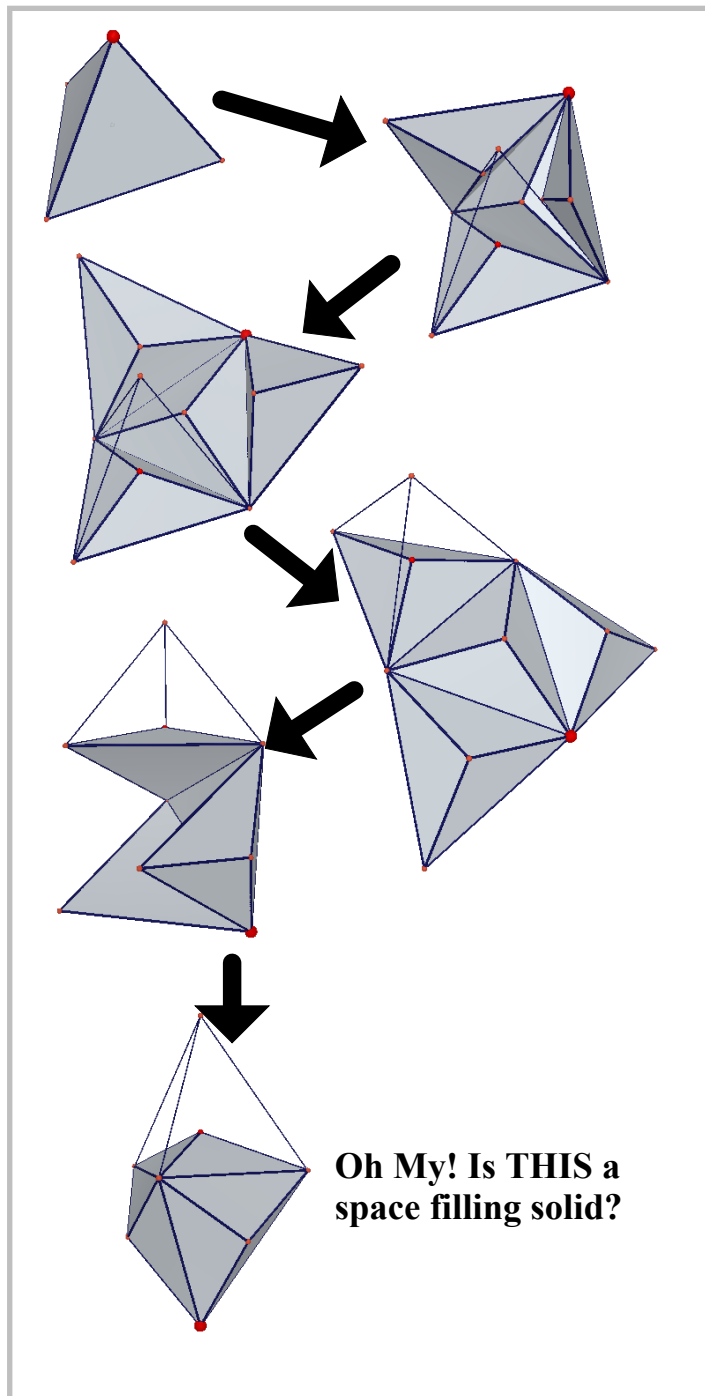
Cube Dissection into three congruent pyramids



Joyce's Cube Dissection!

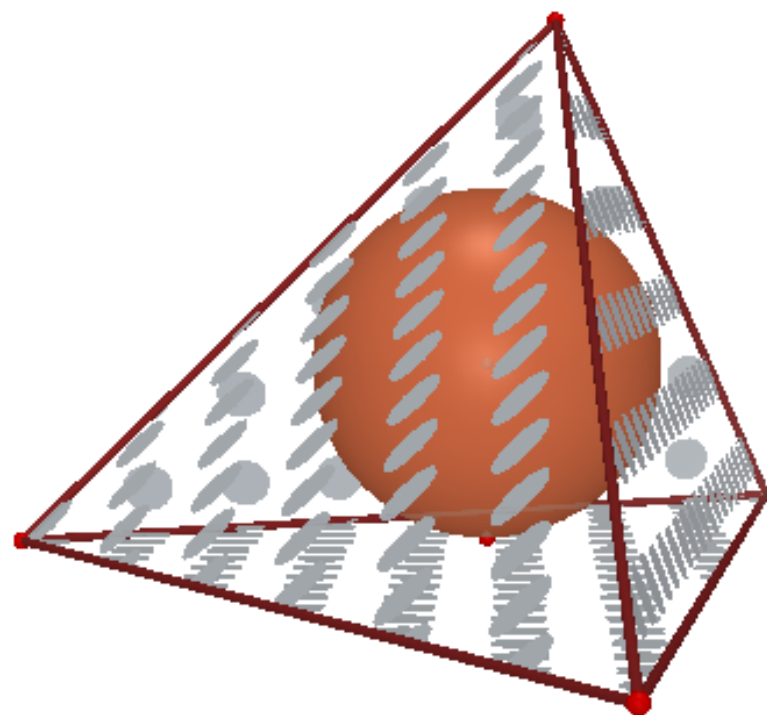


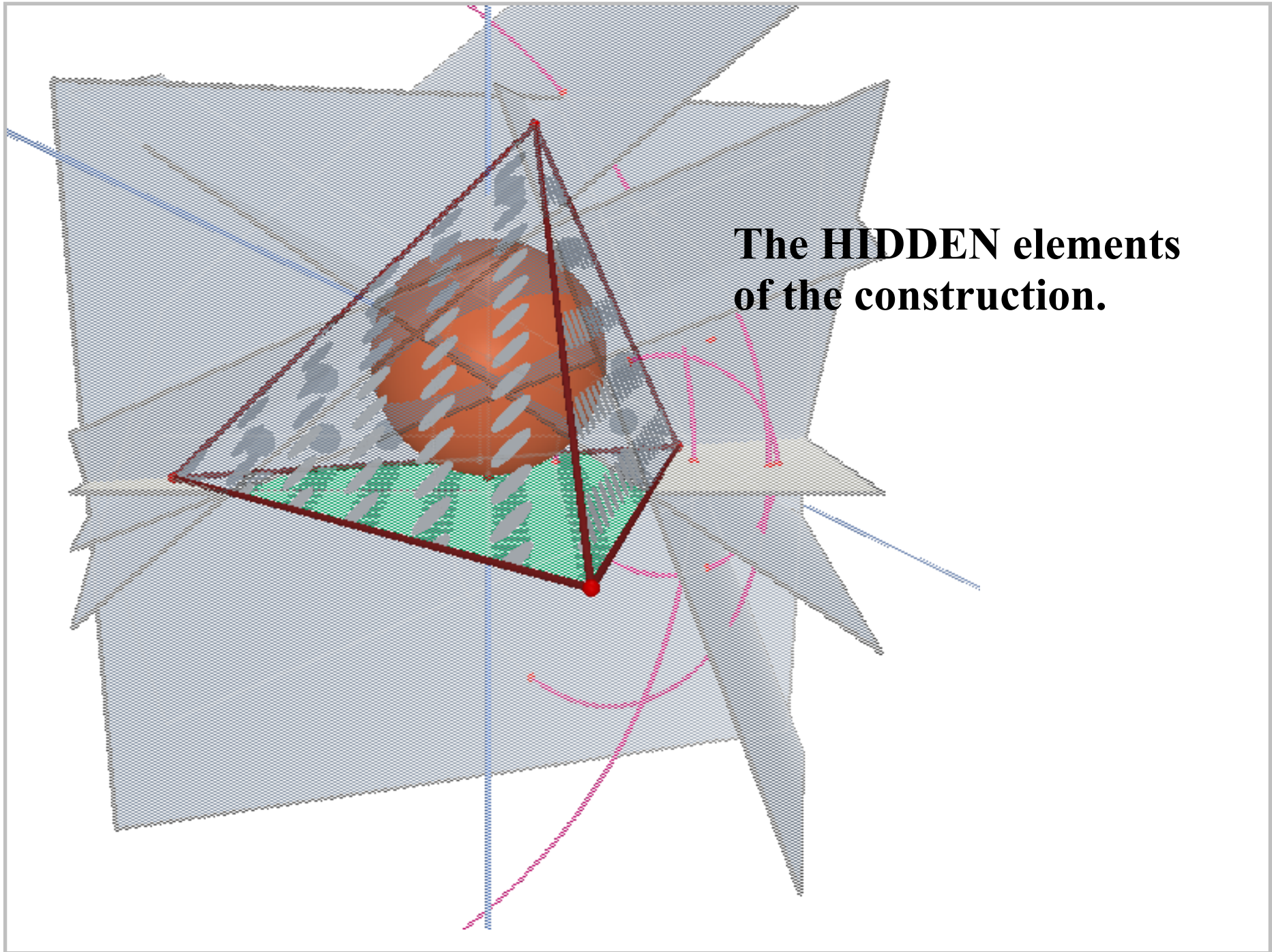
**Oh My!
Is this a SPACE
FILLING SOLID?**



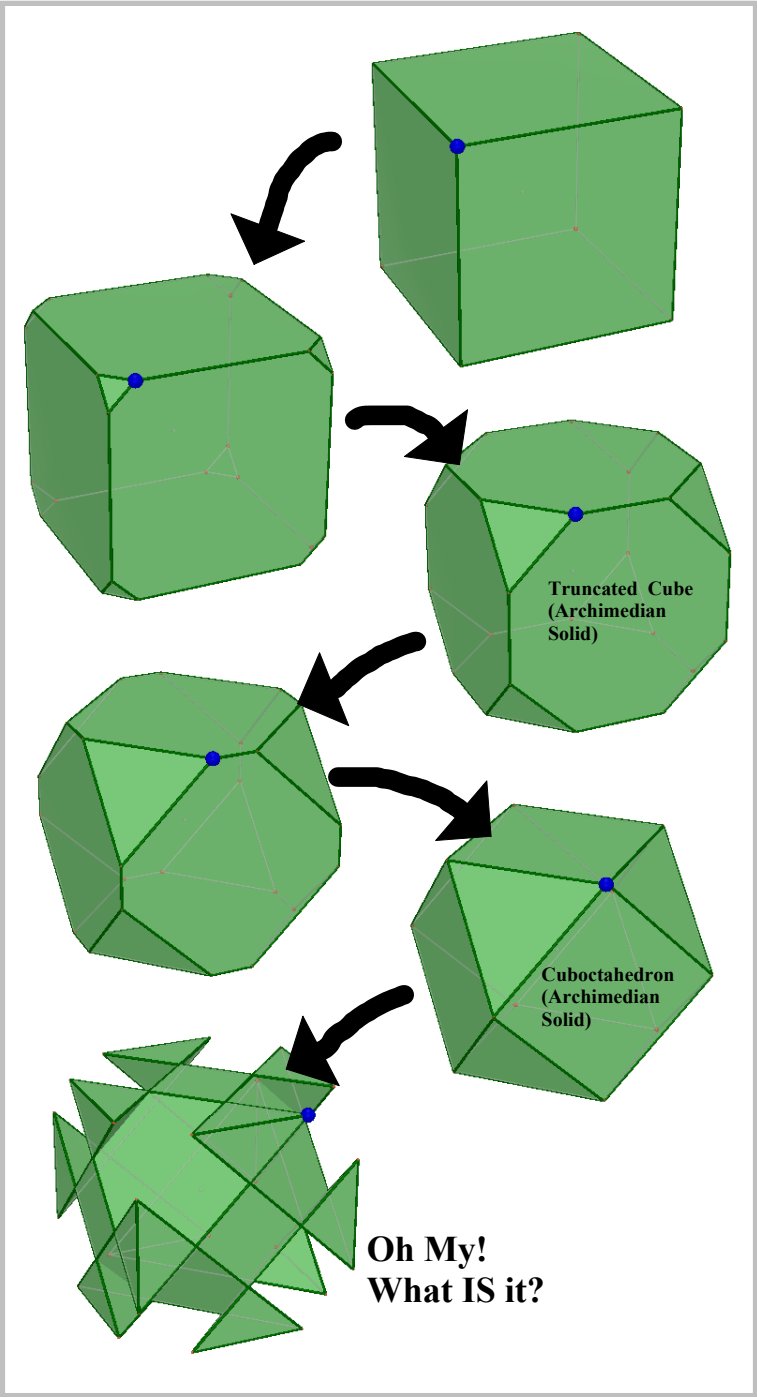
Proposition 54 from Seymour and Smith's SOLID
GEOMETRY, 1949

Inscribe a sphere in any tetrahedron

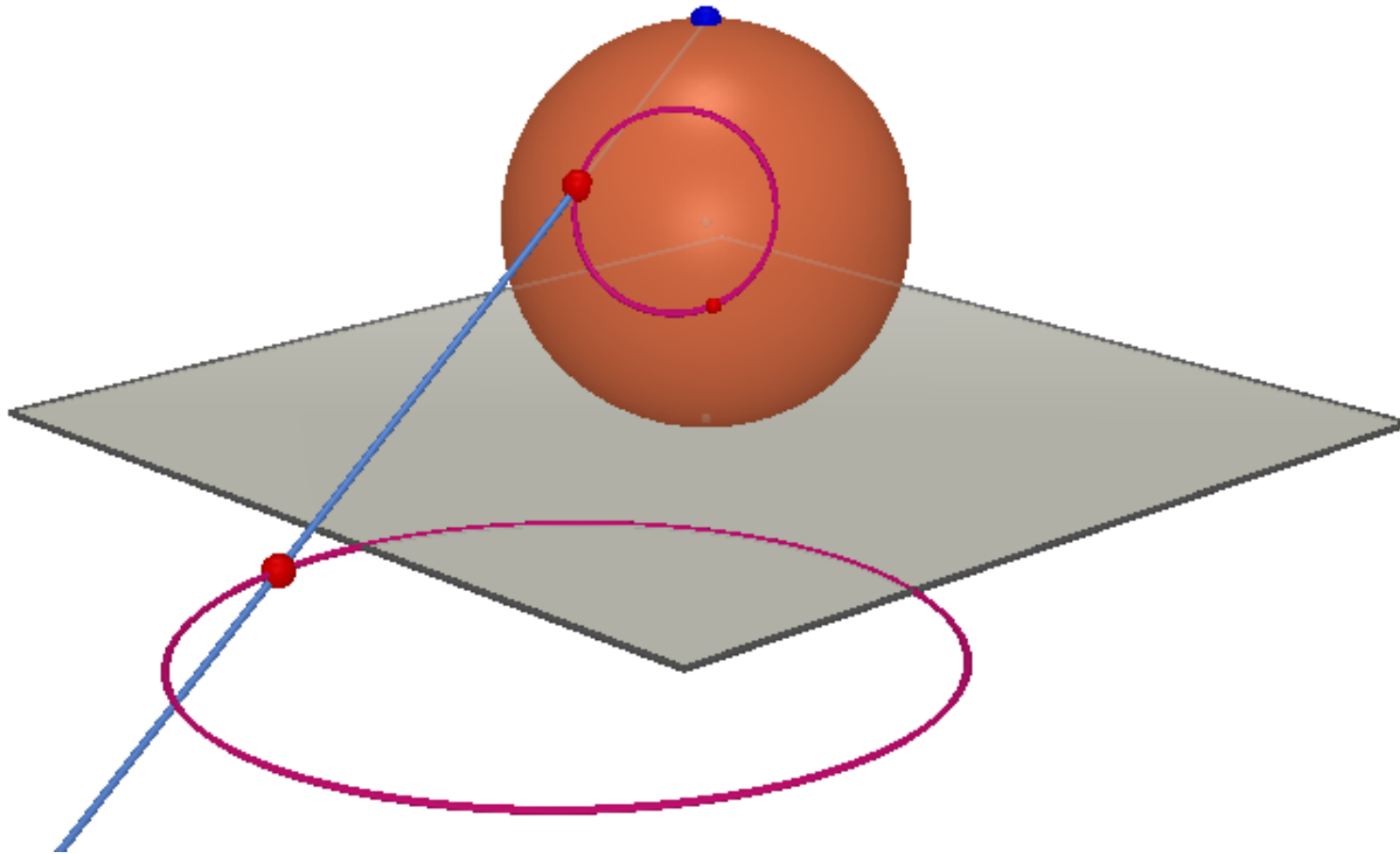




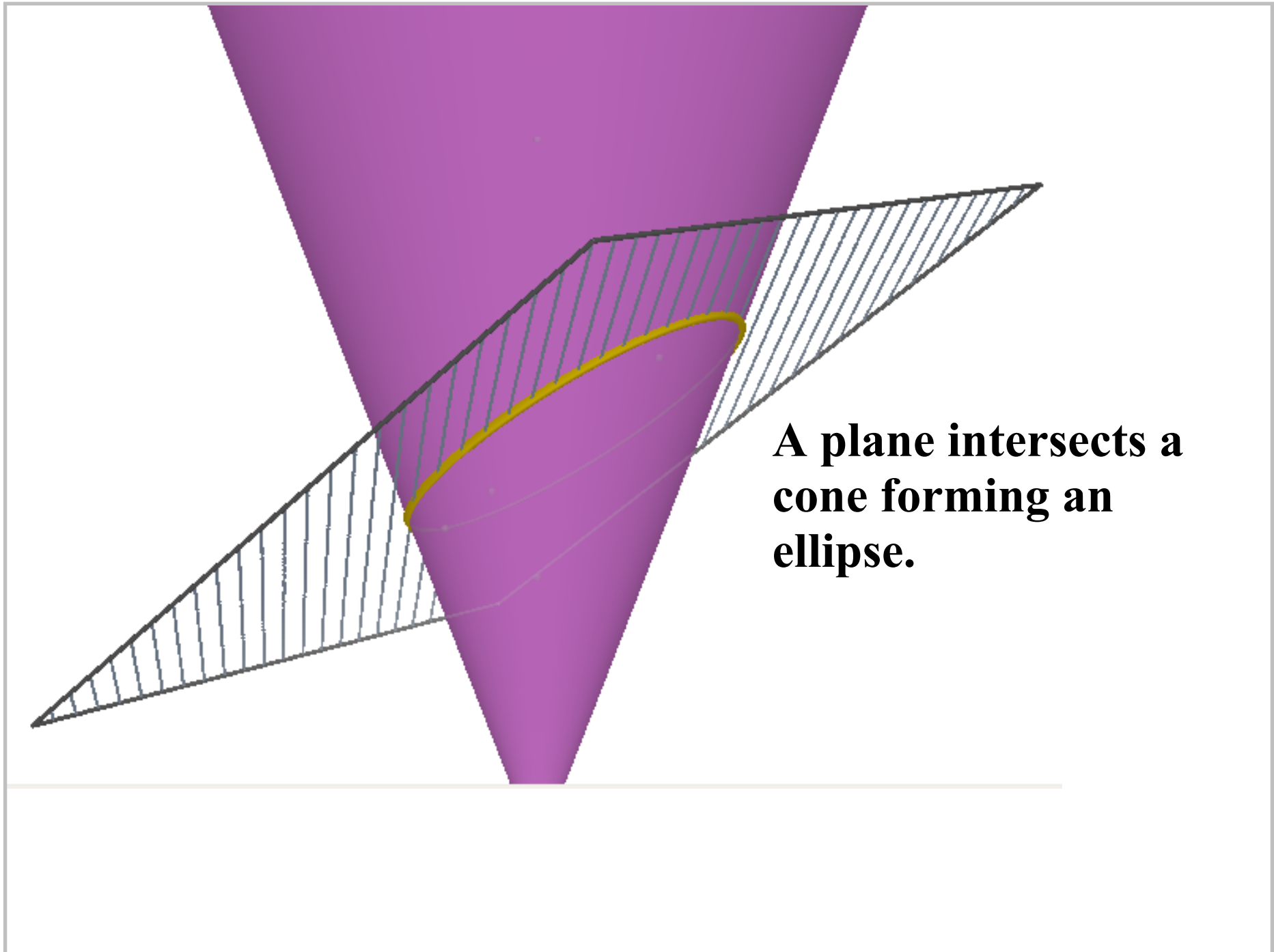
**The HIDDEN elements
of the construction.**



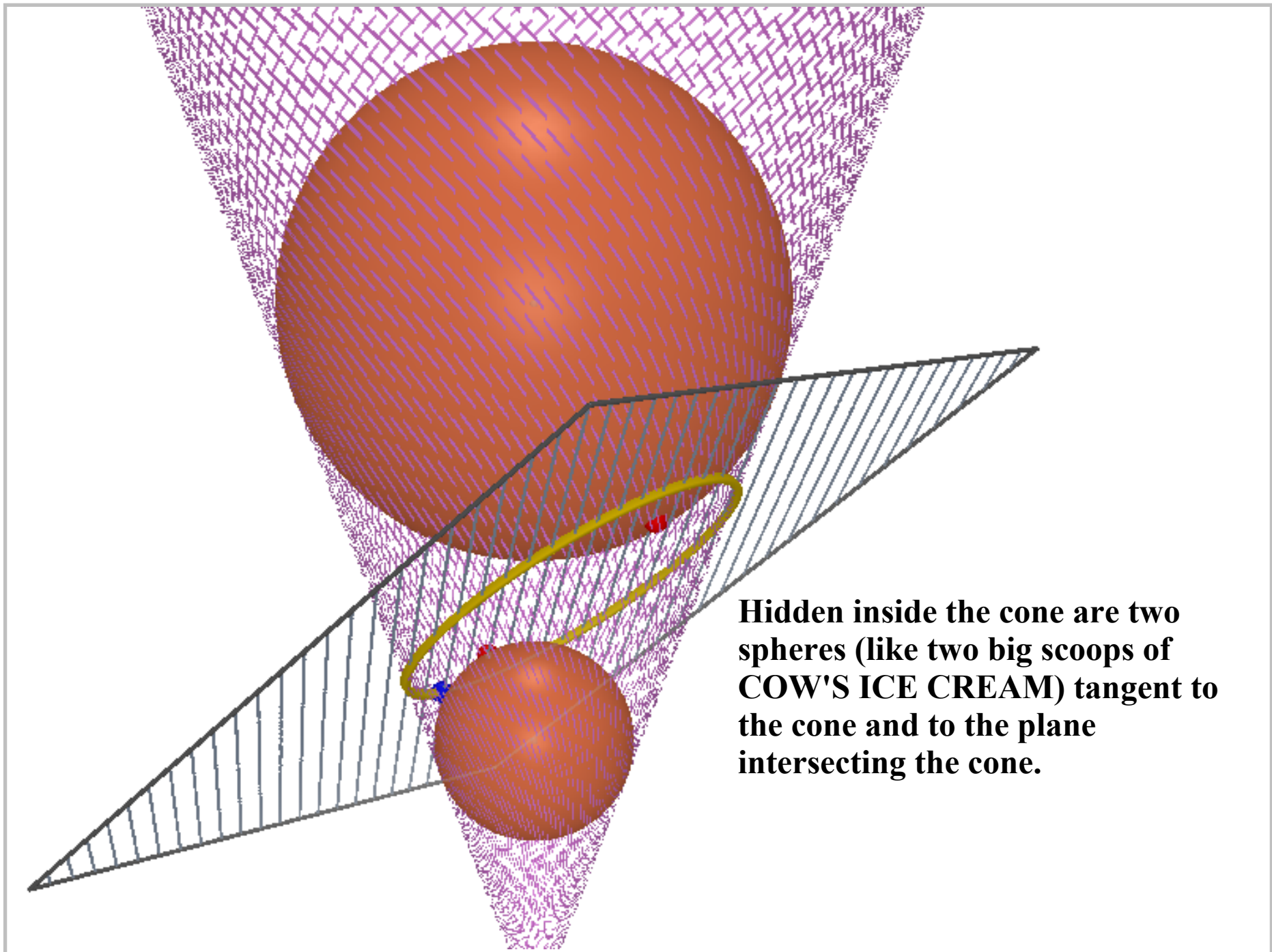
Title: Jul 31 - 10:51 AM (7 of 13)



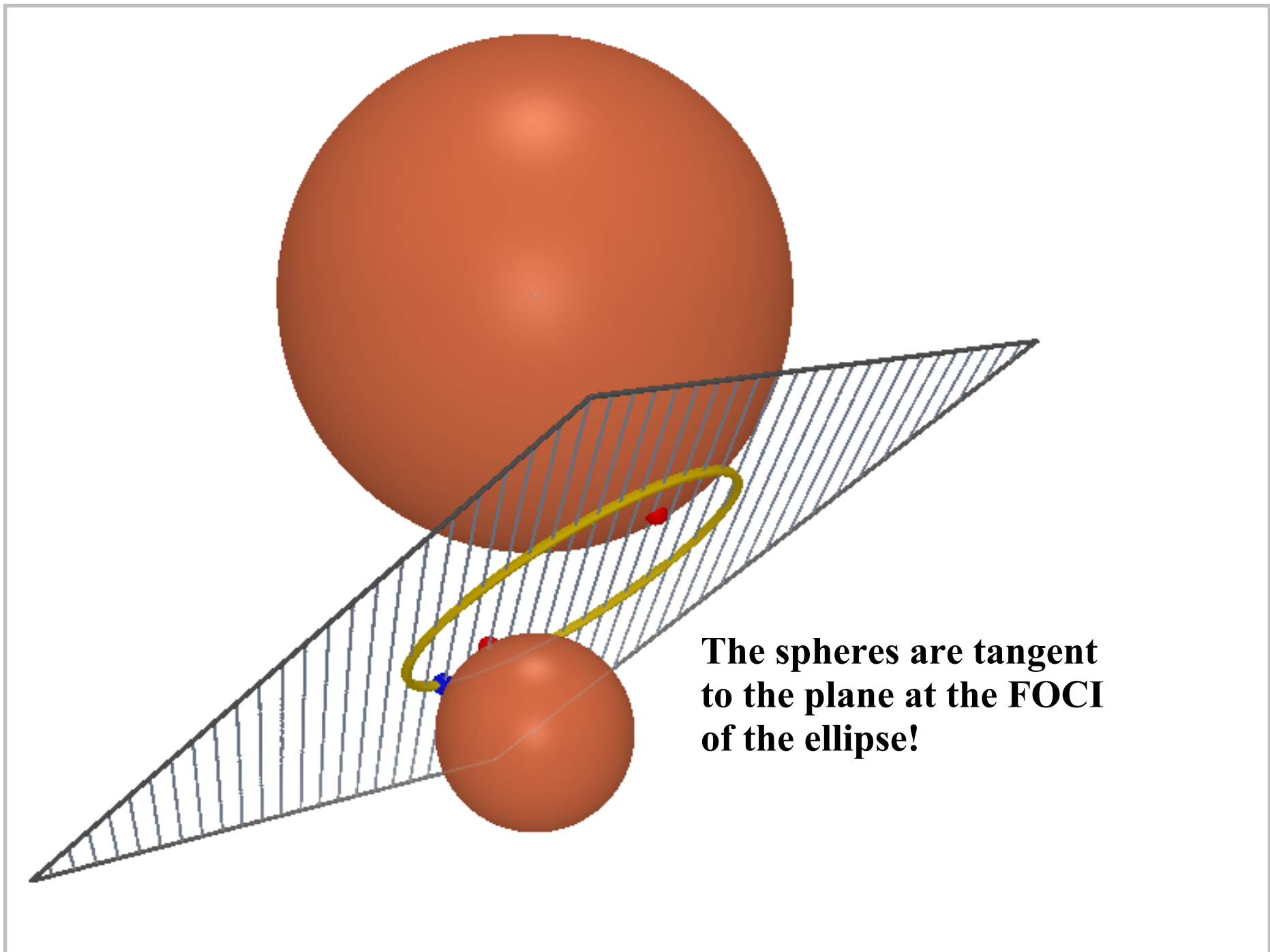
Stereographic Projection



**A plane intersects a
cone forming an
ellipse.**



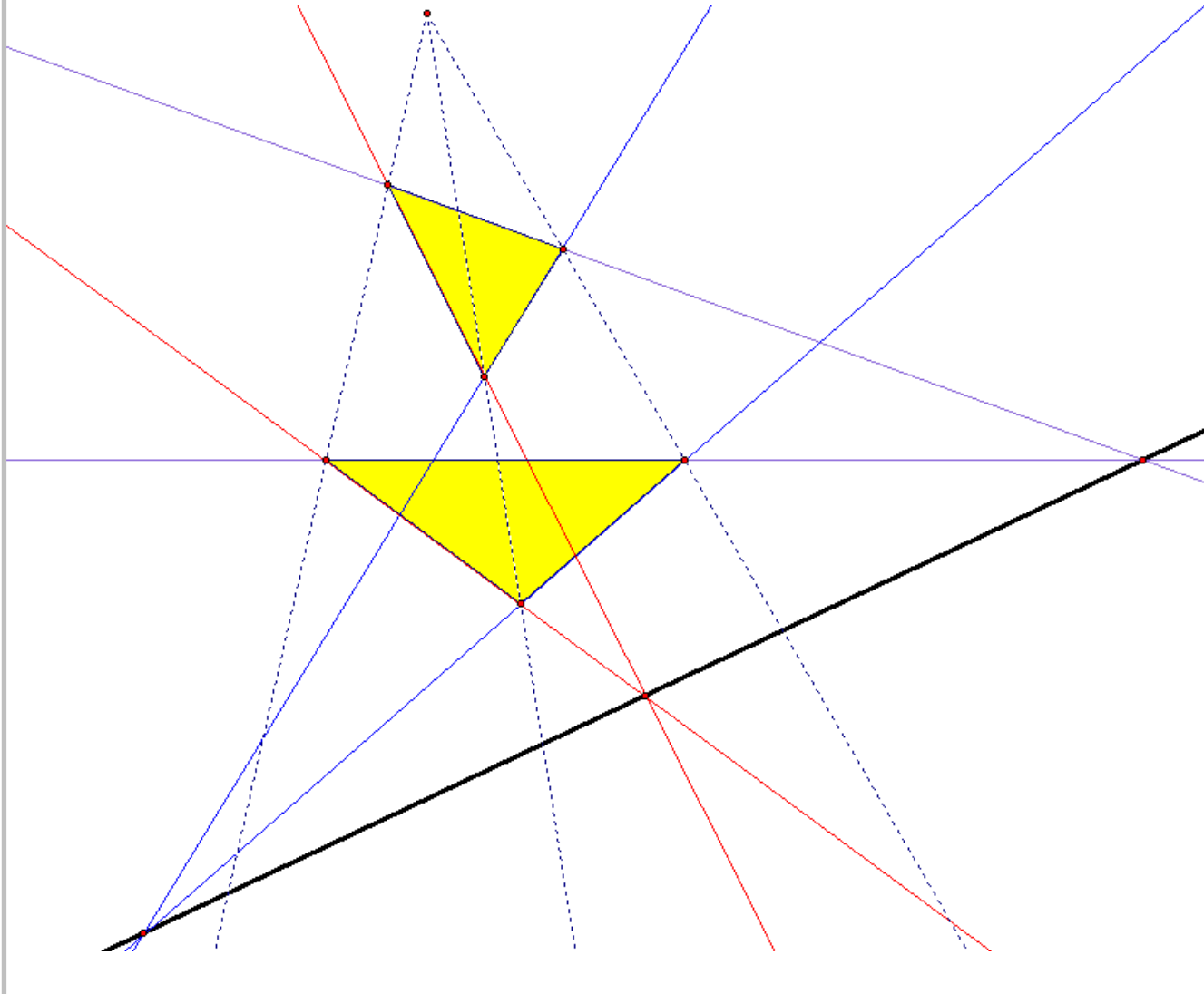
Hidden inside the cone are two spheres (like two big scoops of COW'S ICE CREAM) tangent to the cone and to the plane intersecting the cone.



**The spheres are tangent
to the plane at the FOCI
of the ellipse!**

Desargues' Theorem

Two triangles perspective with a point are perspective with a line.



Desargues' Theorem - an easy proof in 3D

