

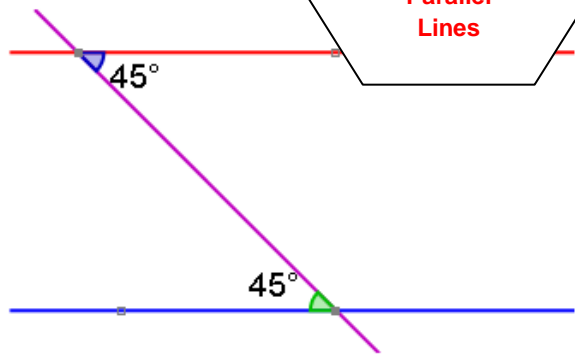
Autograph

version 3

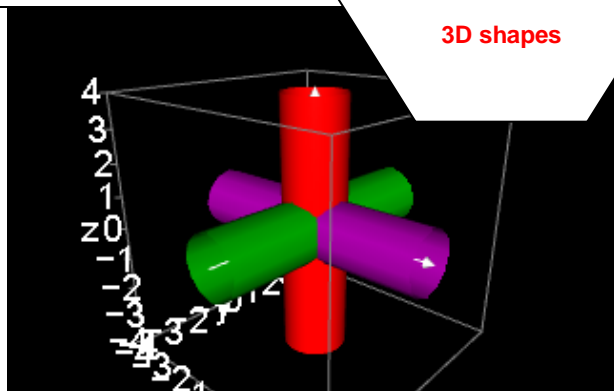
and High School GEOMETRY

Autograph is spectacular dynamic software from the UK that allows teachers to visualise many of the mathematical topics that occur in the High School GEOMETRY course.

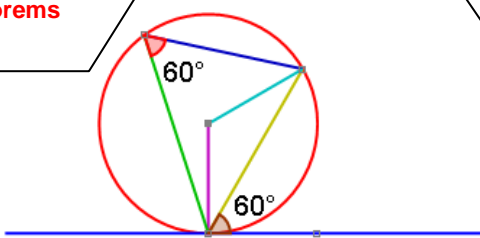
Parallel Lines



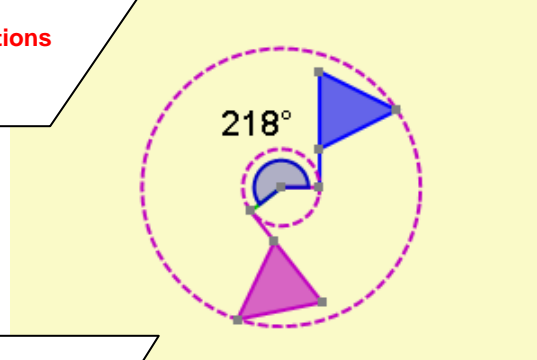
3D shapes



Circle Theorems



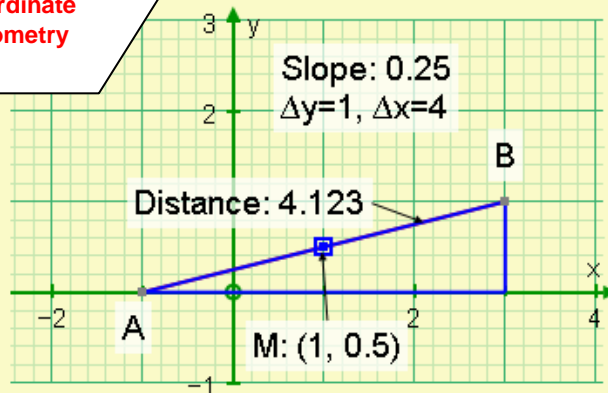
Transformations



Measuring the Pentagon!



Coordinate Geometry



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USA: Topic Outline for High School GEOMETRY courses with references to Autograph



AUTOGRAPH PAGE

GEOMETRY

Tools of Geometry: constructions

Reasoning and Proof: deductive reasoning to make conclusions.

Parallel and Perpendicular Lines in a coordinate plane.

Congruent Triangles; relationships with Triangles

Quadrilaterals: properties of parallelograms and other special quadrilaterals
Area: of special quadrilaterals and regular polygon ; the Pythagorean Theorem.

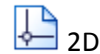
Similar triangles; how perimeters and areas of similar figures are related.
Right Triangle Trigonometry: sine, cosine and tangent ratios

Surface Area and Volume: special 3D figures, **cylinder, cone, sphere**

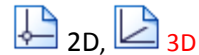
**The use of algebra in analytical geometry: linear equations in two variables,
slope, midpoint, distance formula**

Circles: equations; angle theorems; segments and arcs.

**Transformations: reflections, translations (by vector), dilation, rotation;
symmetry.**

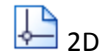


2D

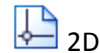


2D,

3D



2D



2D

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