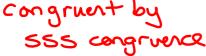


An edition of Euclid's Elements published in London in 1570 featured little paper models attached to the pages that could be folded up to form three-dimensional figures. One pattern consisted of a triangle and its three midsegments. It could be folded to form a tetrahedron, which is a polyhedron with four triangular faces.

38. What must be true about the four triangles in each figure?



Two edges of a tetrahedron that do not intersect are called opposite edges; for example, AC and BD are opposite edges.

40. What do you notice about the opposite edges of the tetrahedron?

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41. What is the sum of the three angles at each vertex of the tetrahedron?

