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antiprism

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An *antiprism* is a prismatoid whose bases are congruent and whose lateral faces are congruent triangles.

An antiprism can be used to construct an icosahedron: Let A be an antiprism with regular pentagons as its bases and equilateral triangles as its lateral faces. To each base of A, attach a pentagonal pyramid whose base is congruent to the bases of A and whose lateral faces are equilateral triangles.

For any integer $n \geq 3$, the following are equivalent statements about an antiprism A:

1. A has a base that is an n-gon;

2. A has $2n + 2$ faces;

3. A has $2n$ vertices;

4. A has $4n$ edges.