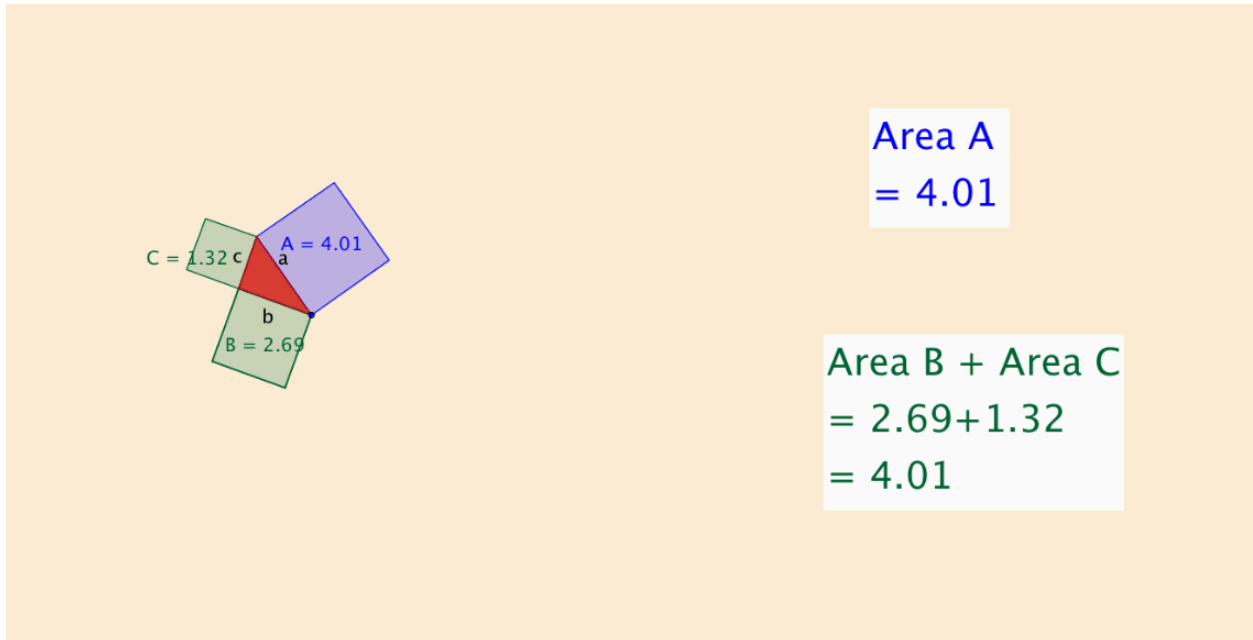
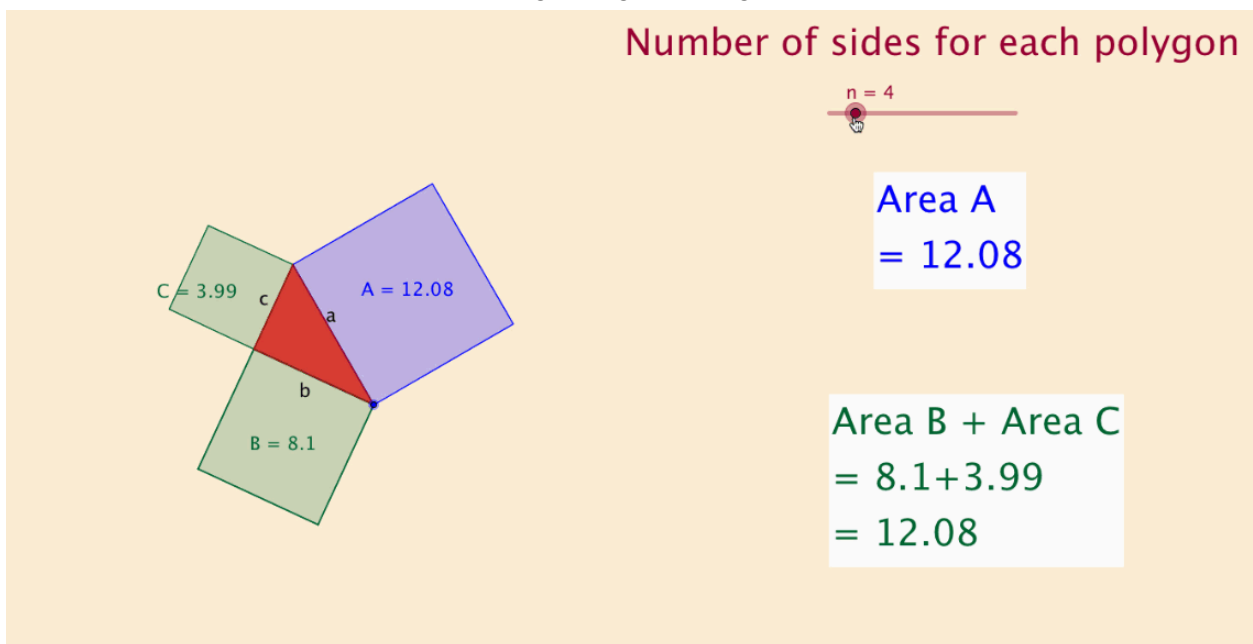


A surprising aspect to Pythagoras' Theorem

1) The theorem we were taught at school relates to the dynamic image below.

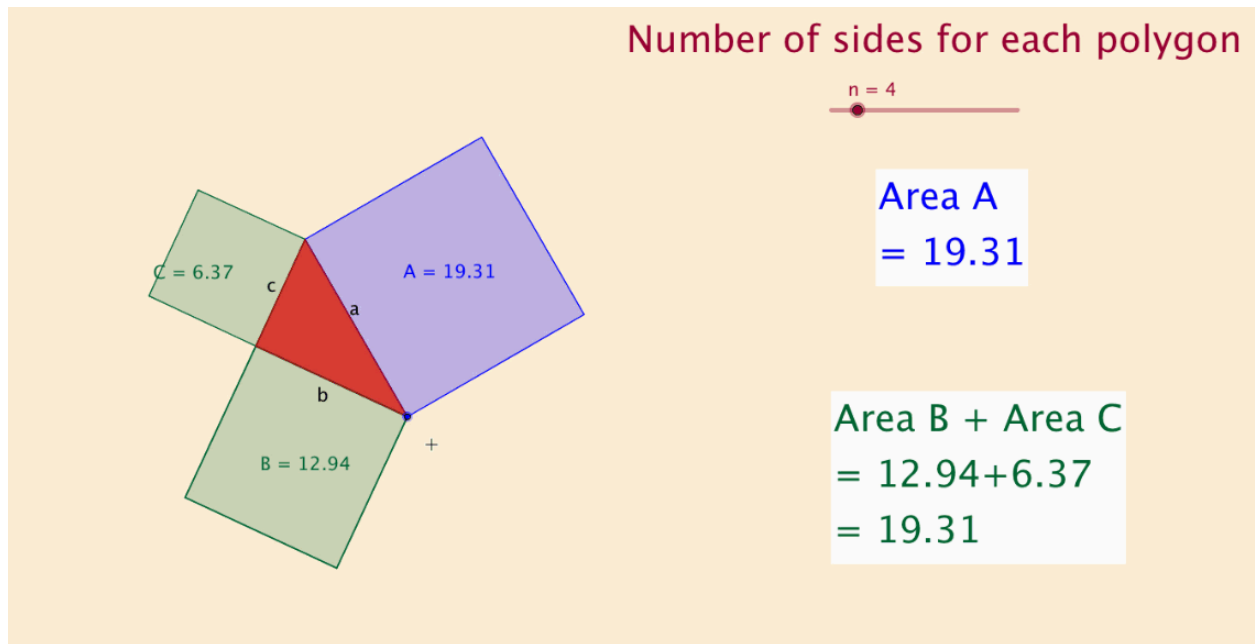


2) But does the principle also work for regular polygons - other than squares - on the sides of a right-angled triangle?



... keep scrolling ...

3) The demonstration below shows the triangle varying in size for each polygon type.



The above gifs (dynamic images) are created from demonstrations of a GeoGebra file. GeoGebra is a free application available to all maths teachers and students.

Further information:

Article: [Are you utilising GeoGebra?](#)

Article: [Developing conceptual understanding with GeoGebra](#)

Course: [Dynamic Geometry and Algebra with GeoGebra](#) (for GeoGebra Novices as well as those not fully confident with the application)

Course: [Further Your GeoGebra Skills](#) (advanced course)