For this project, you will use your knowledge of the Pythagorean Theorem to create a “snail” pattern, as pictured above. You will be graded on accuracy, neatness, and creativity!

Steps to create your “snail”:

1. Start with an 8.5” x 11” piece of paper. Using a straightedge, connect the corners of the paper, and mark the center of the X created. You may erase the X, but the intersection point will be the center of your “snail”.
2. Using the intersection point as a vertex, draw a 2cm x 2cm isosceles right triangle in the middle of the page (Hint: Make sure you are forming a RIGHT triangle!). Be sure to label the sides, and use the Pythagorean theorem to label the length of the hypotenuse IN EXACT FORM.
3. The hypotenuse of the first triangle becomes the longer leg of the next triangle (with the other smaller leg measuring 2cm). Be sure to label each of your side lengths IN EXACT FORM.
4. Continue the process until you are satisfied with your snail design (it must include at least 10 triangles). Each “small leg” of your right triangle should measure 2cm.
5. Get creative! Color your “snail” using the materials of your choice. Be sure that you can still read the labels on your triangles!

Grade:

Accuracy (3 points)  
The side lengths of your triangles are accurately calculated  
________ /3

Neatness and Creativity (3 points)  
Your triangles and finished “snail” pattern are drawn neatly and precisely  
Your “snail” pattern is colorful and original  
________ /3

Labels (3 points)  
The sides of your triangles are labeled IN EXACT FORM  
________ /3

Total (9 points)  
________ /9

Comments: