**Proving the Pythagorean Theorem Using Similar Triangles**

Goal: Prove the Pythagorean Theorem using similar triangles.

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| Step 1: Rotate a right triangle so that it sits on its hypotenuse.  🡪 |
| Step 2: Draw and label the three separate triangles. Patty paper might be helpful. |
| Step 3: Write a proportion with two fractions that include “a.” Use this proportion to write an expression for. |
| Step 4: Write a proportion with two fractions that include “b.” Use this proportion to write an expression for. |
| Step 5: Use the previous two steps to prove. |