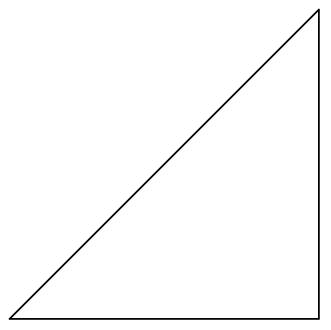
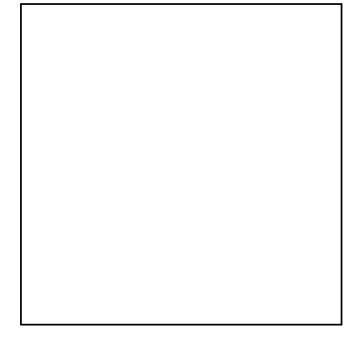
## Subdividing Triangles

1. Start with an obtuse triangle—a triangle with on obtuse angle. (A 45-45-90 triangle will be fine too.) Subdivide this triangle into triangles that are all acute.



- 2. Find the minimum number of acute triangles needed to subdivide an obtuse triangle into acute triangles.
- 3. Start with a square. Subdivide this square into triangles that are all acute.



- 4. Find the minimum number of acute triangles needed to subdivide a square into acute triangles.
- 5. Find a subdivision of the square into acute triangle with any number of triangles greater than the minimum number.