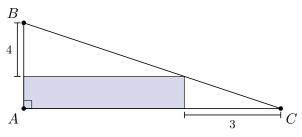
Rectangle in a Triangle

Aykut C. Satici August 4, 2021

1 Problem Statement

Consider the blue rectangle that shares its bottom B left corner with that of the triangle $\triangle ABC$ as seen in the figure to the right. The length of the line 4 segment between points B and the top left corner of the rectangle is 4 units while the length of the line segment between the bottom right corner of the rectangle and point C is 3 units.



- 1. Find the area of the rectangle.
- 2. What is the minimum area of the triangle $\triangle ABC$?