

# Scissors Congruence

MATH 261 Computational Geometry

**Question 1:** Is every triangle is scissors congruent with some rectangle? *Find a proof or a counterexample.*

**Question 2:** Are every two rectangles of the same area are scissors congruent? *Find a proof or a counterexample.*

**Question 3:** Suppose polygon  $P$  is scissors congruent to polygon  $Q$ , and  $Q$  is scissors congruent to polygon  $R$ . Is  $P$  scissors congruent to  $R$ ? *Find a proof or a counterexample.*

**Question 4:** Let  $P$  and  $Q$  be polygons of the same area. Are  $P$  and  $Q$  scissors congruent? *Find a proof or a counterexample.*