

**PROBLEM FOR NOVEMBER 2011:
CHANGING TRIANGLES**

The *shape* of a triangle is given by the angles of the three corners. Given a triangle, move each corner outward along its bisector over one-tenth of the shortest edge of the triangle. Explain (with proof) what happens with the shape of the triangle when this process is repeated over and over again.

All undergraduate students are invited to send in solutions. Send your thoughts to: marco@math.sunysb.edu. The prize winner will be chosen at random from the most elegant solutions received before November 30, 2011. The winner will receive the prize during the first December meeting of the Math Club.