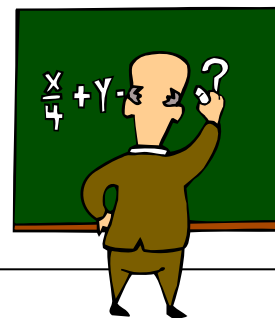
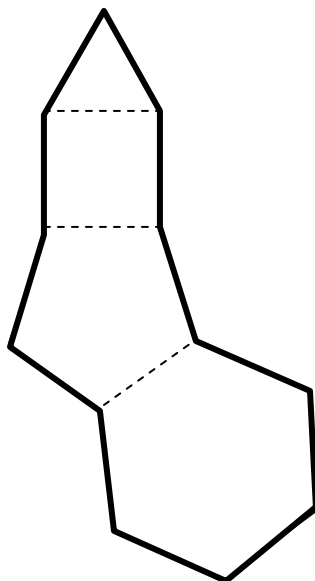


Problem of the Week

November 17 – November 23, 2009



Construct a square on one side of an equilateral triangle. On one non-adjacent side, construct a regular pentagon. On a non-adjacent side of the pentagon, construct a regular hexagon, as shown. Continue to construct regular polygons in the same way, until you construct a regular fifteen-sided polygon. How many sides will the resulting figure have? (The figure shown below has 12 sides.)



Adapted from AMC 8

Note: This week's problem is due on Monday, November 23rd by 8:30 am. The answer to last week's Shikaku problem was is attached to this problem.

Congratulations to **Nicholas Mollerus** for submitting the solution of the week. His solution is attached to this message and is on display outside of Room 67. Other correct solutions came from **Luke Marinaro, Trey Collins, Alex Tremble, John Peter Cerini, Julian Anderson, Tim Johns, Geroge Gaspar, Jorge Inamagua, Axel Heinemann, Arthur Calcagnini, Nathaniel Wood, Christopher Padilla, Philip Bliss, Skakel McCooey, Thomas Harvey, George Harvey, Ryan Kelly, Nicholas Kanavos, John Vella, and Connor Barrett.**

Solution of the Week

Nicholas Mollerus

