

problem corner | by Dave Lindell and Benjamin Bloch

Problem 182

by Dave Lindell, L.S.

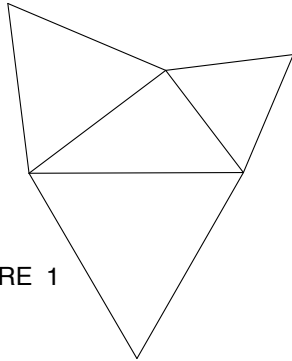


FIGURE 1

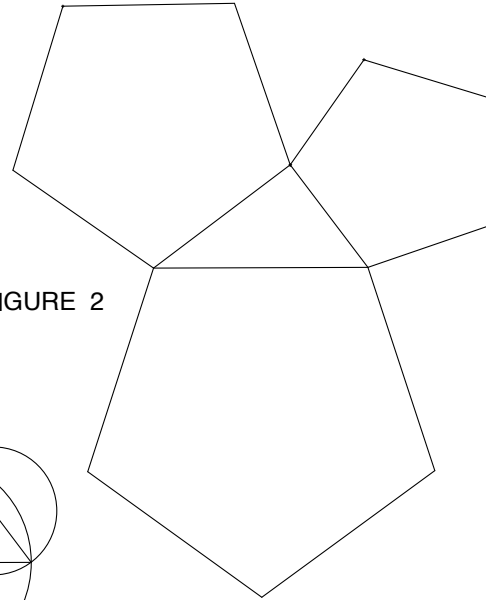


FIGURE 2

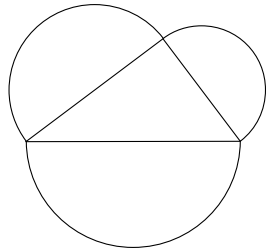


FIGURE 3

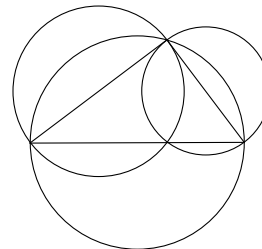


FIGURE 4

You have seen the Pythagorean Theorem proven with squares constructed on the sides of a right triangle. Does the theory hold for equilateral triangles? Pentagons? Semi-circles? Full circles?

(The inside triangles are all 3-4-5 triangles for simplicity.)