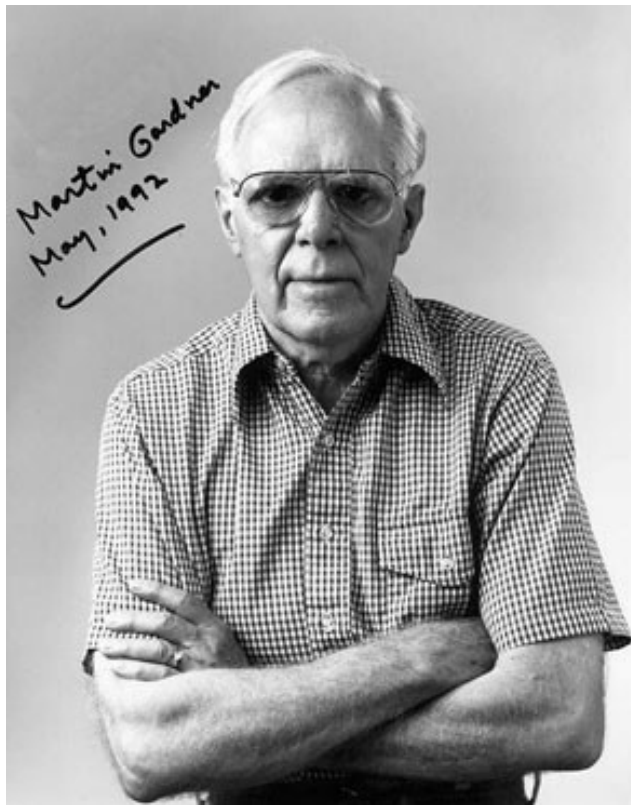
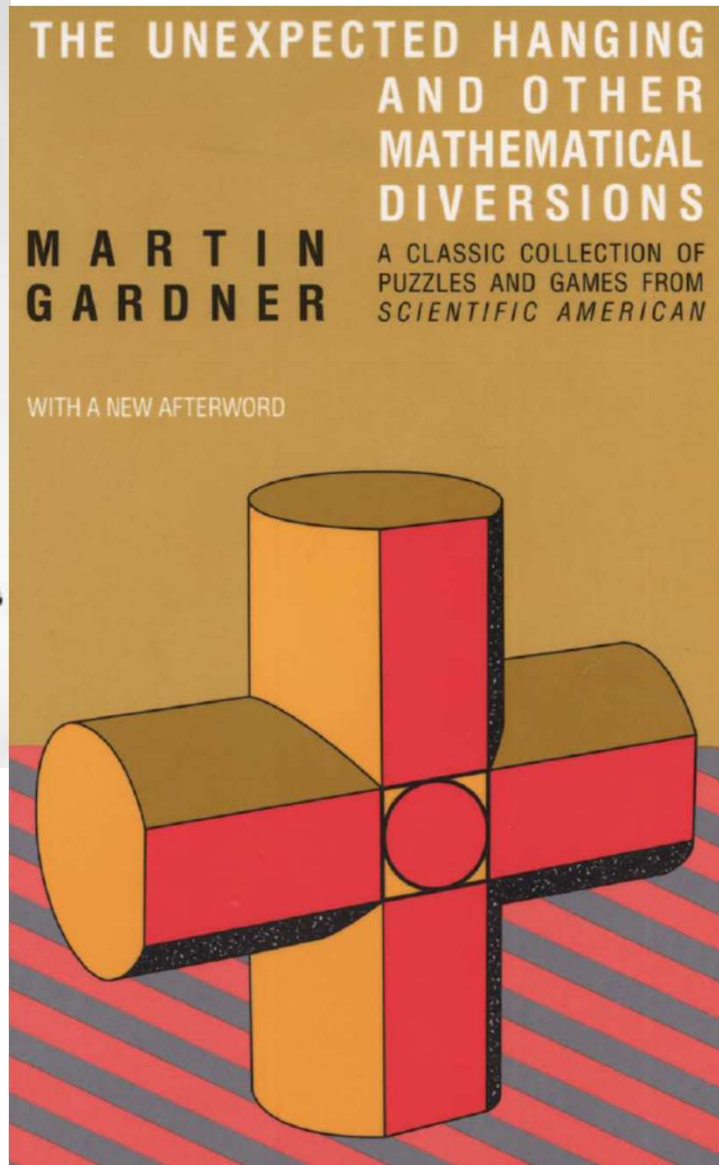


G4G 2025

# Martin Gardner

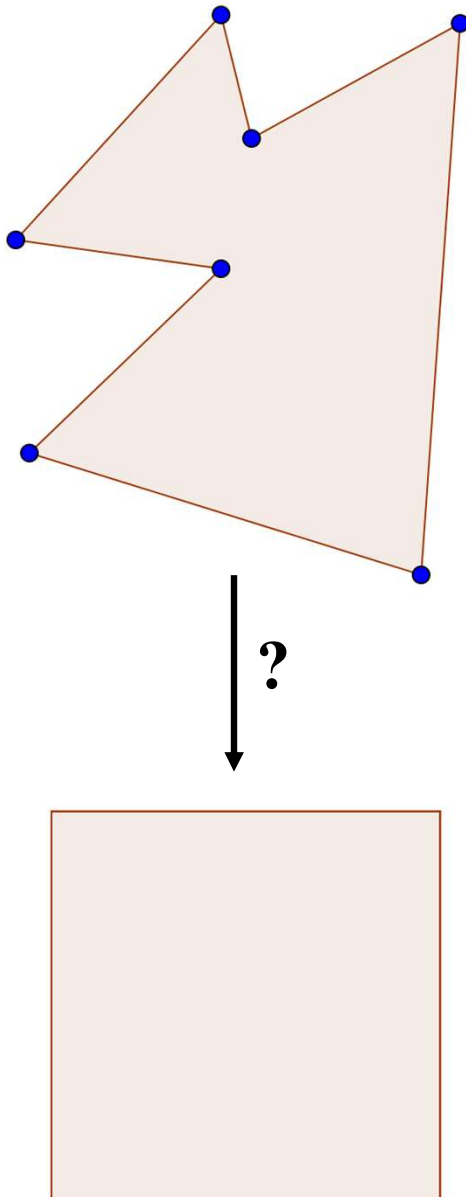


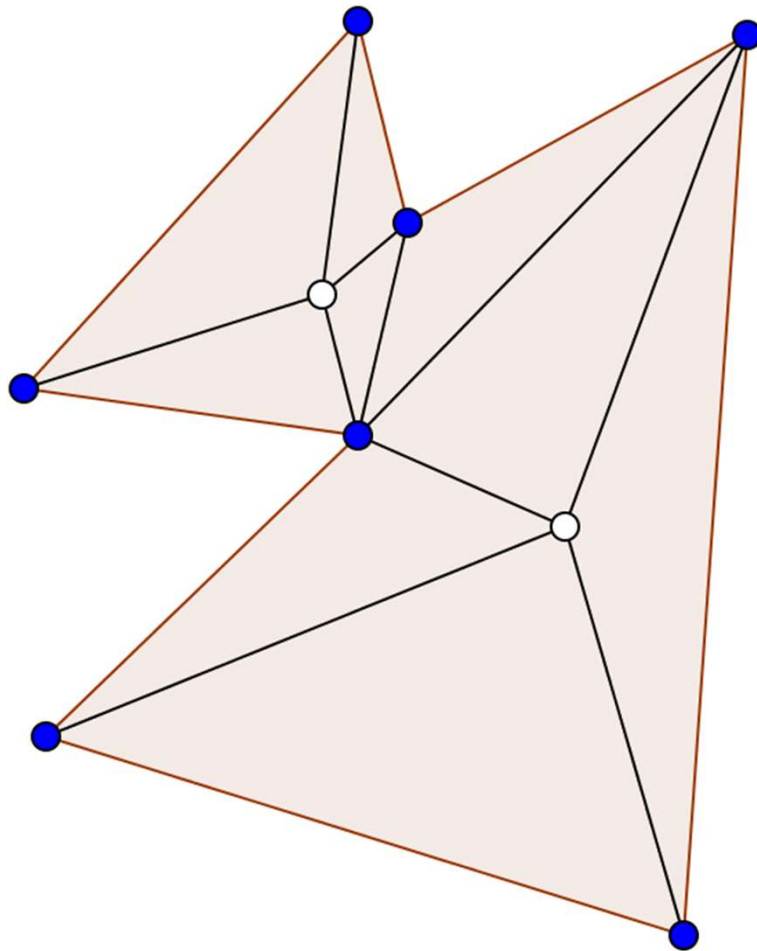
22/05/2010

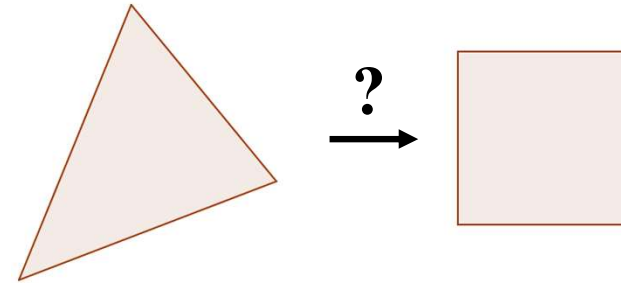
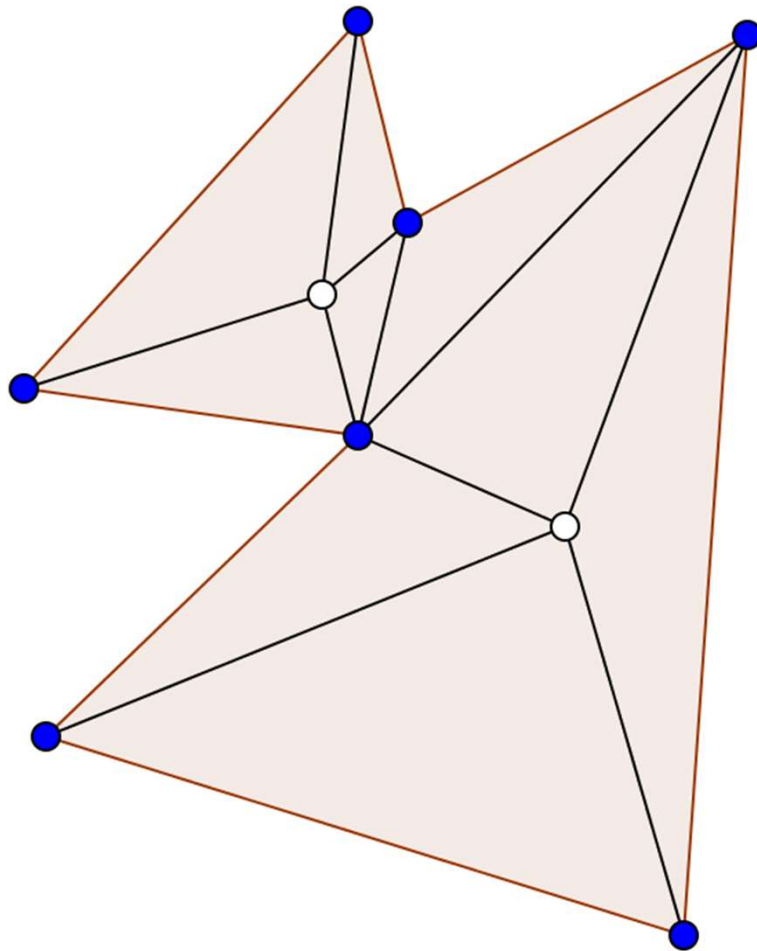


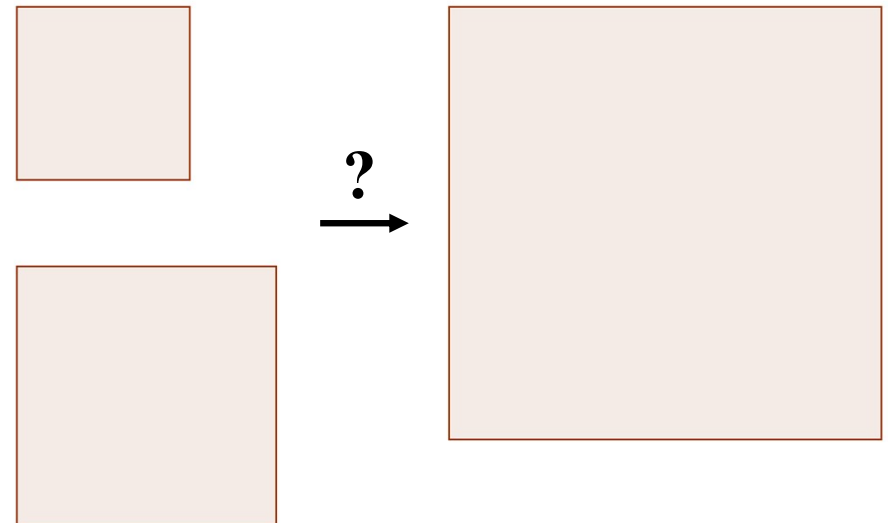
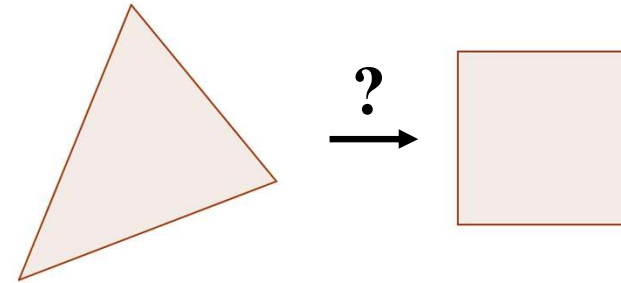
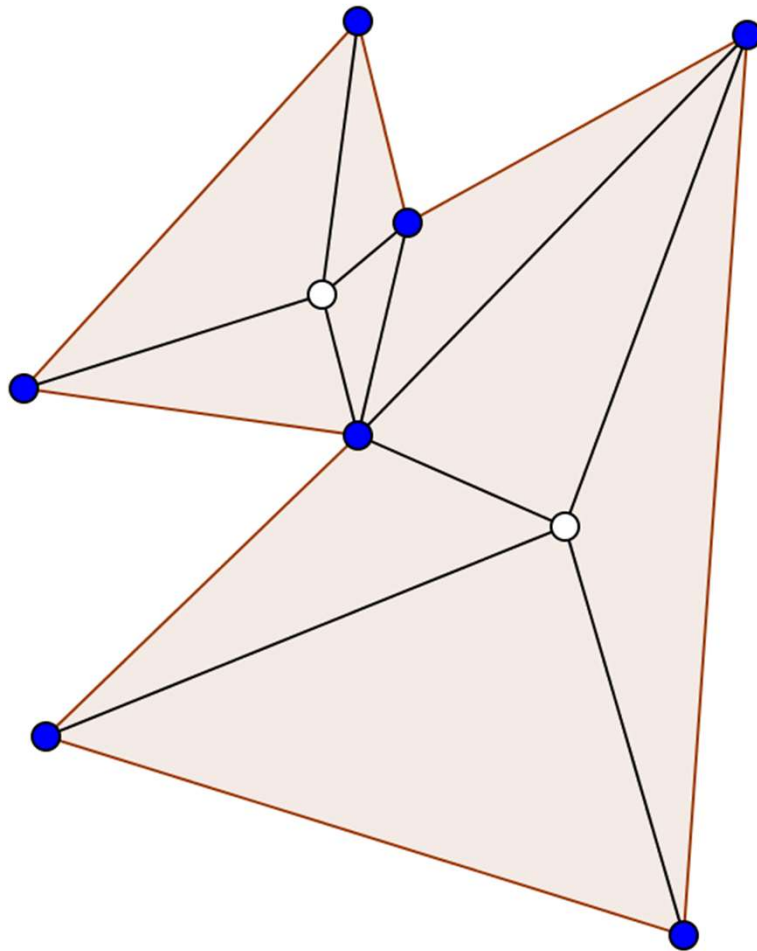
21/10/1914

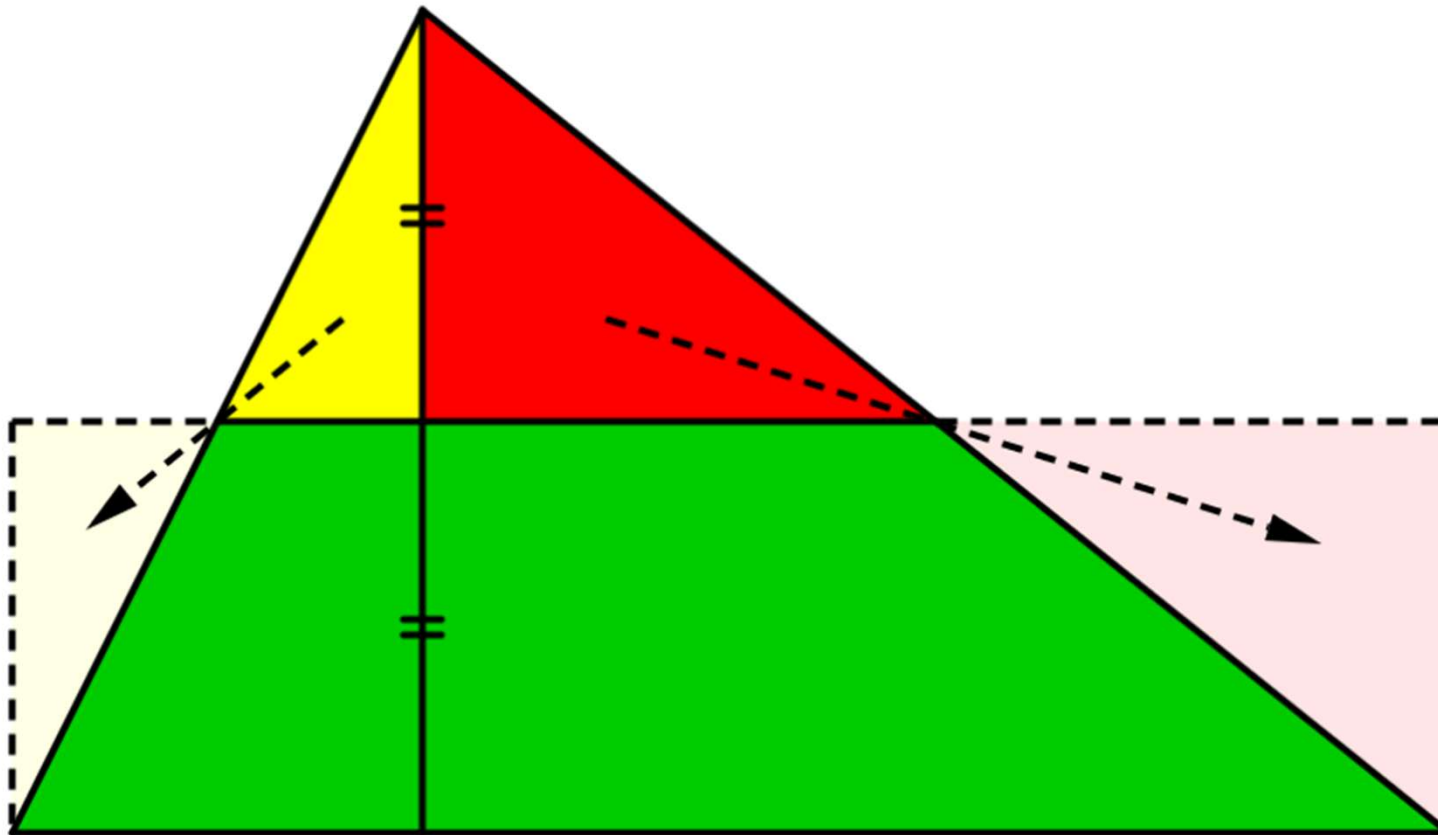




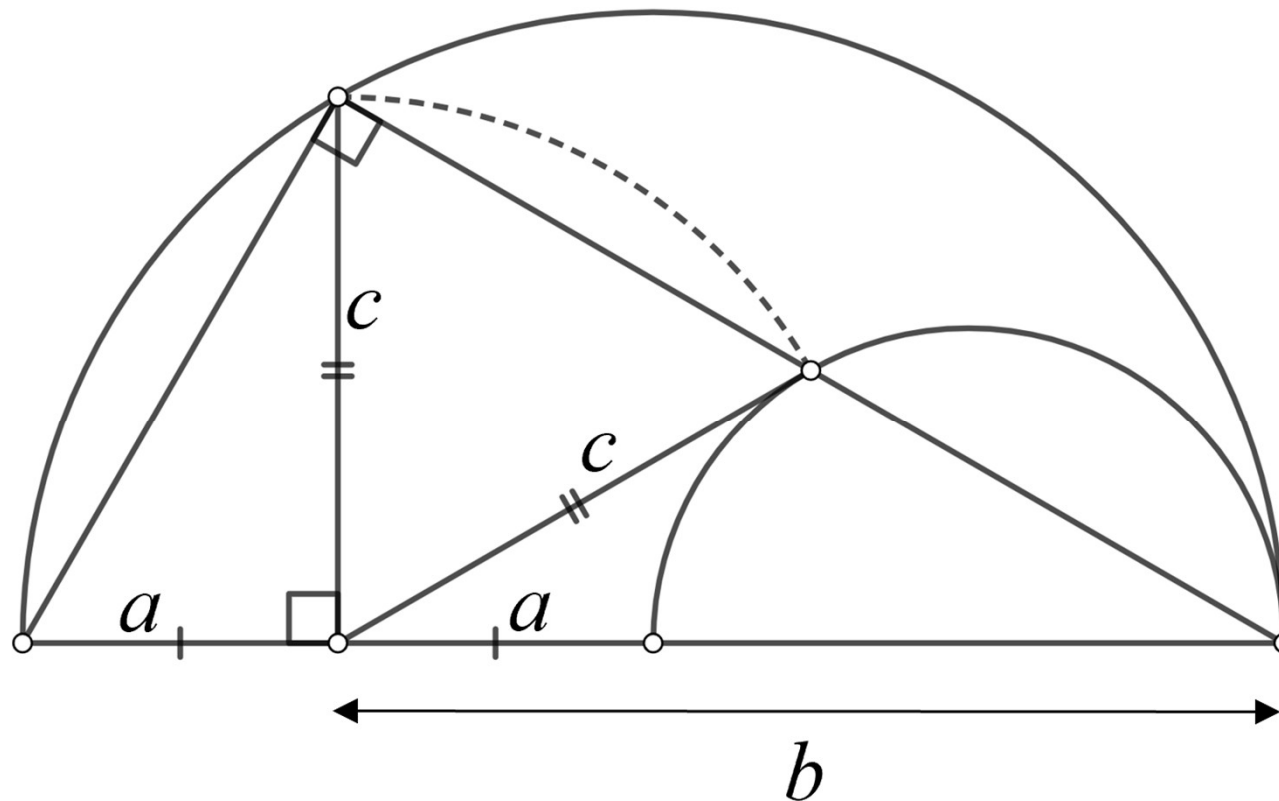


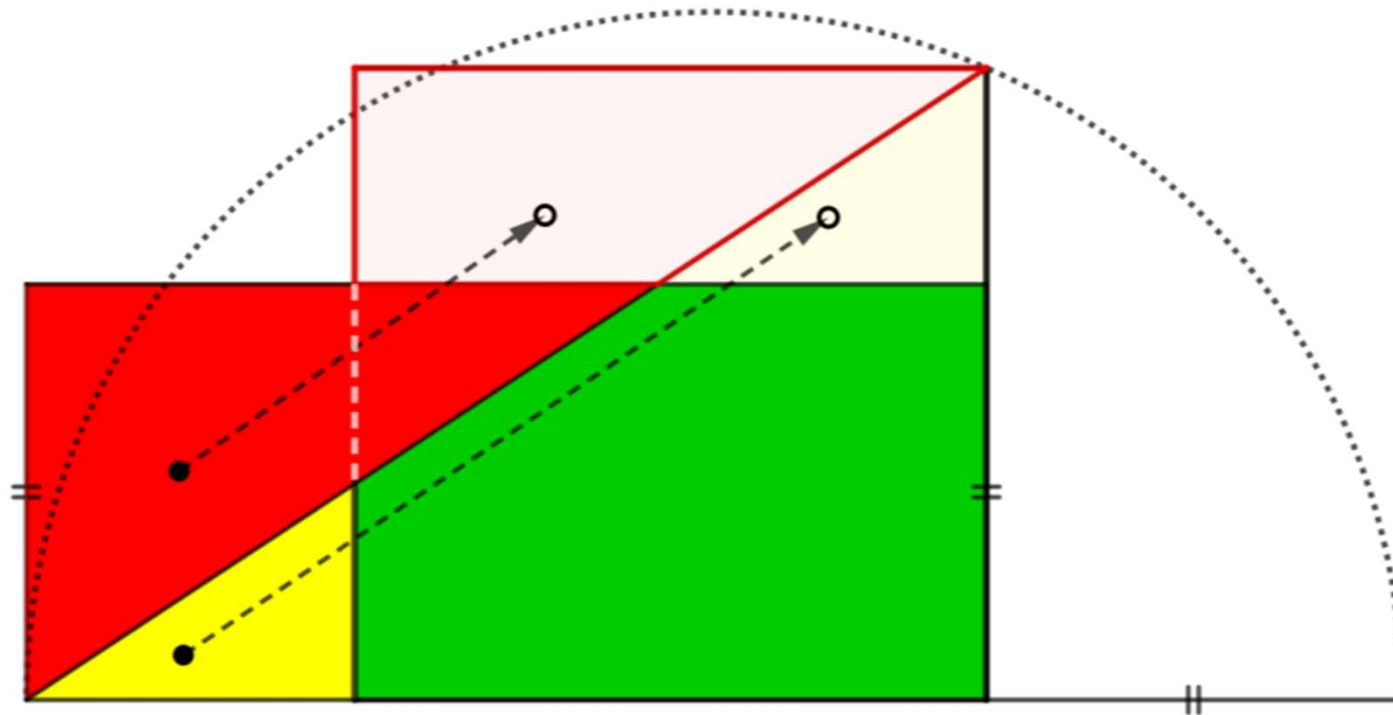


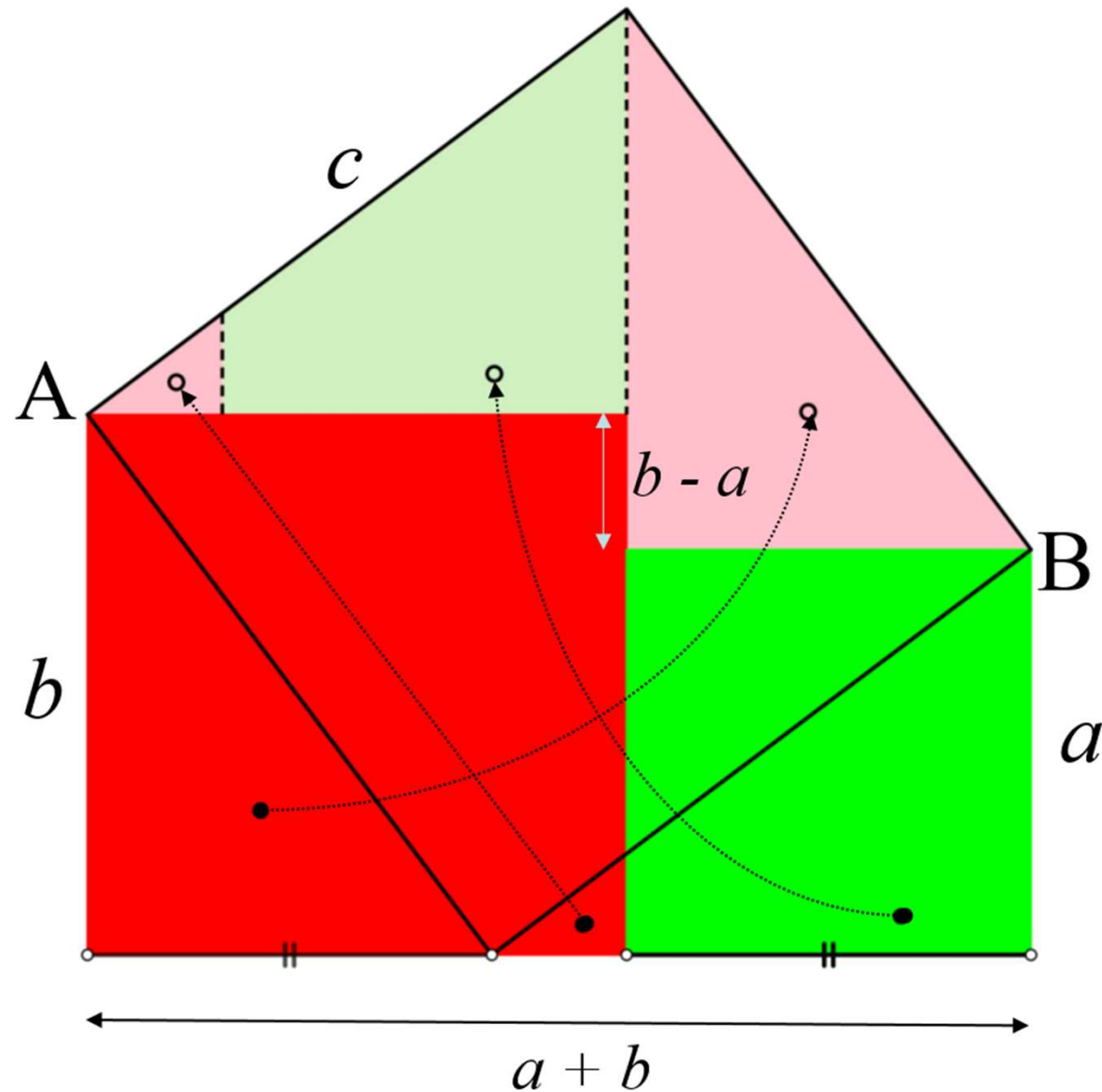




## Puissance d'un point









# Rep-Tiles: Replicating Figures on the Plane

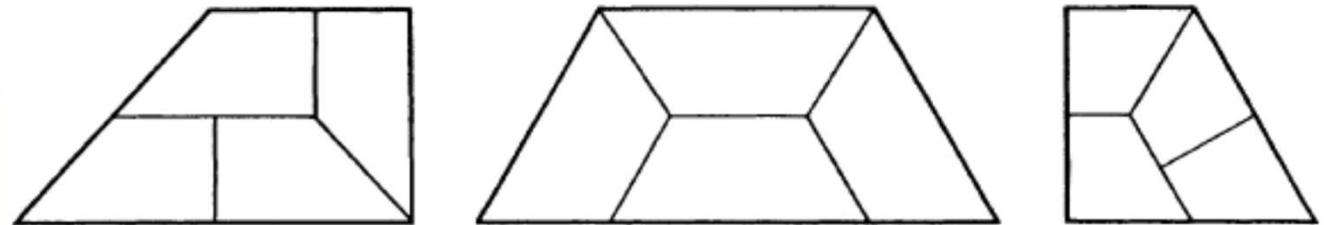
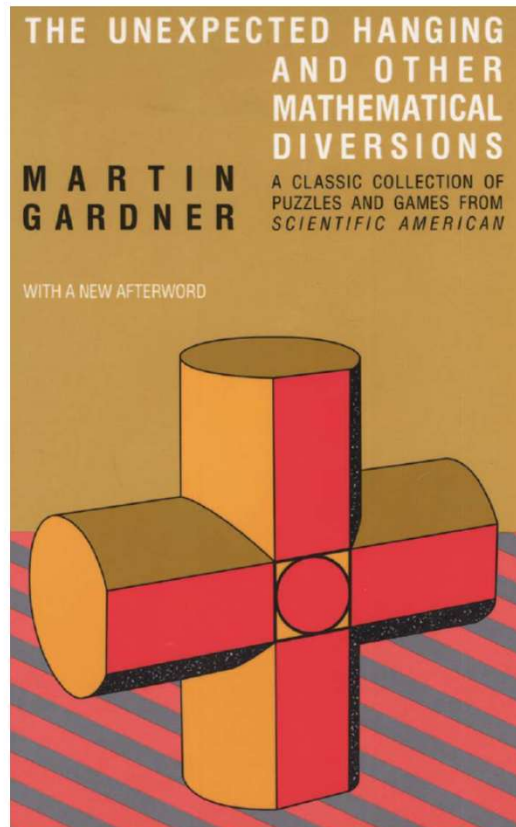
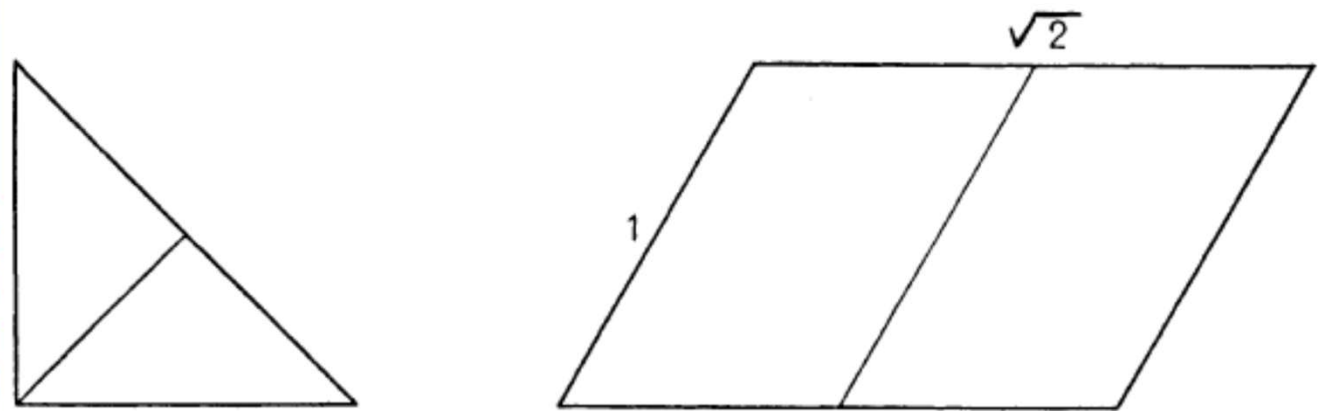


Figure 103

Three trapezoids that have a replicating order of 4

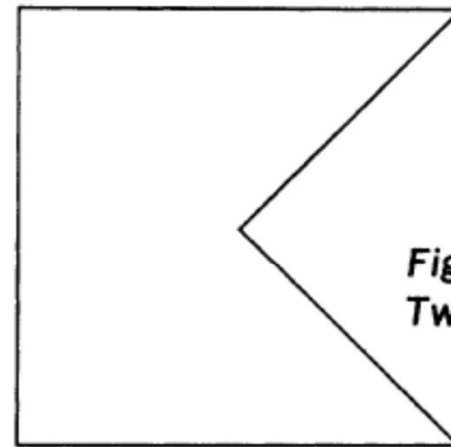
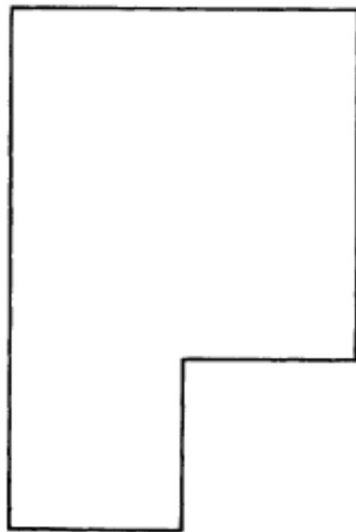


The only known rep-2 polygons

## CHAPTER NINETEEN

○

# Rep-Tiles: Replicating Figures on the Plane



*Figure 112  
Two dissection problems*





La mitre est concave

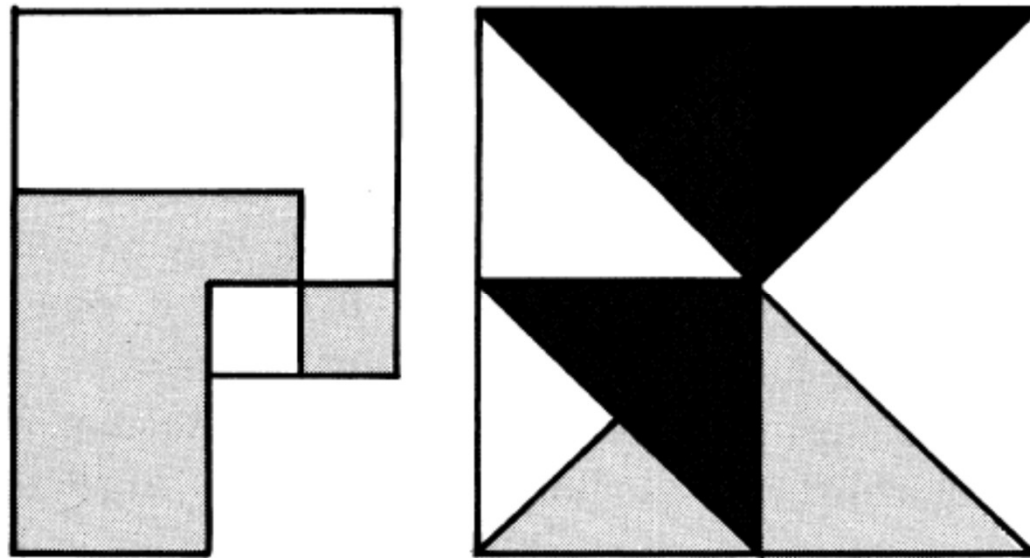
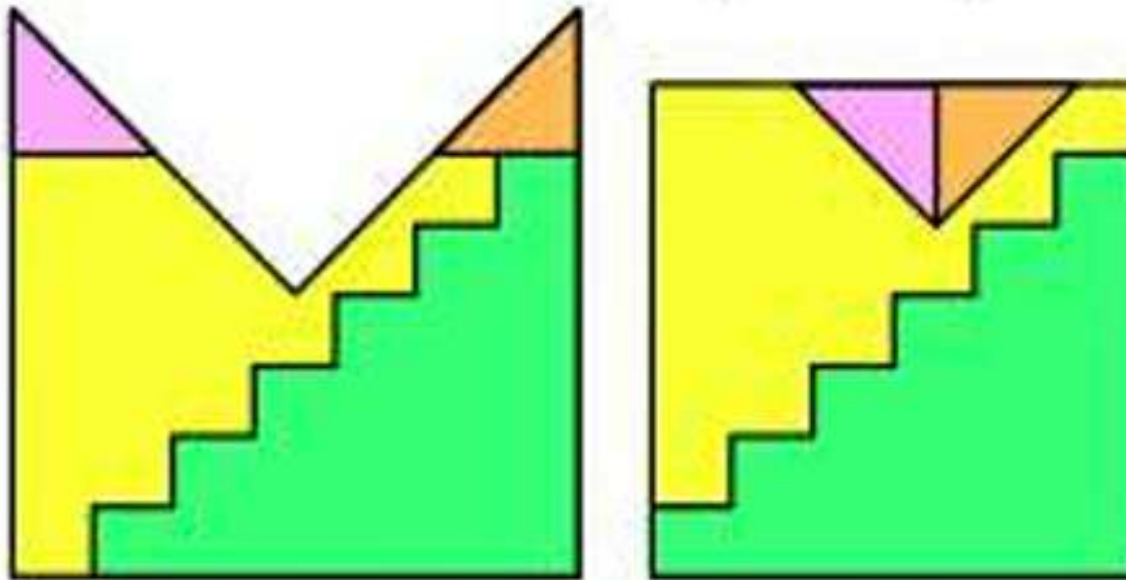


Figure 113  
Solutions to  
dissection problems



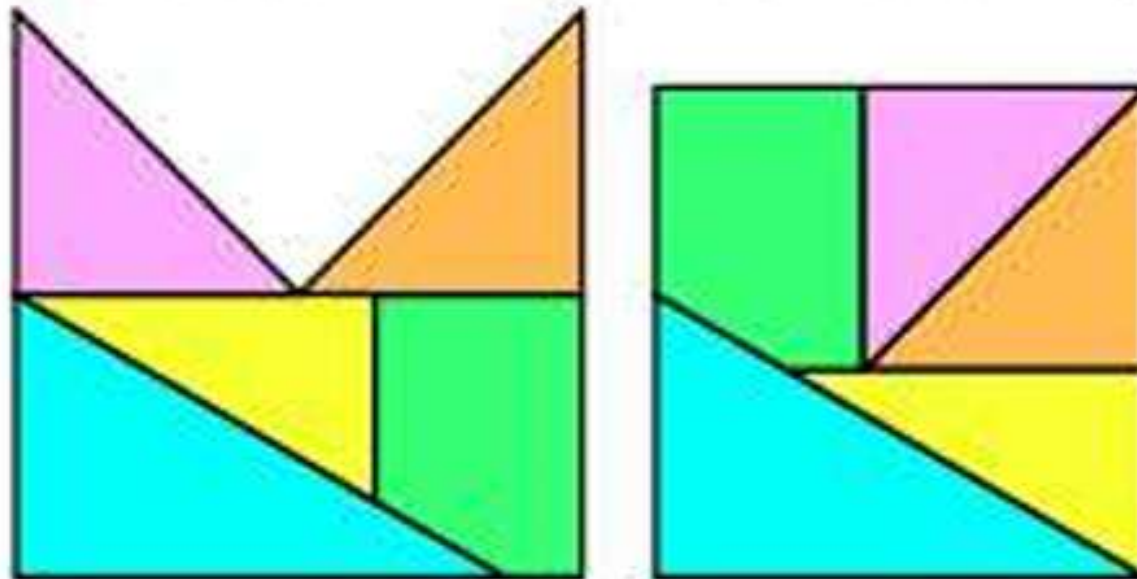
4-piece (faulty) solution  
**Sam Loyd (1901)**



**NOT A SQUARE!**

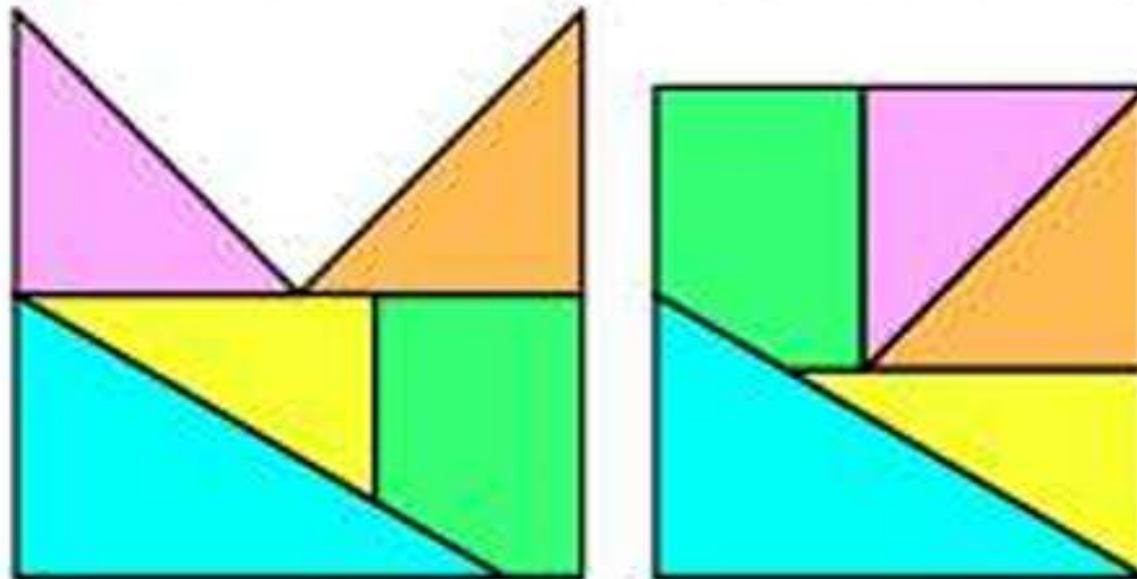


## 5-piece solution Henry Dudeney (1911)

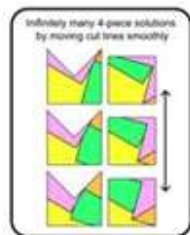




## 5-piece solution Henry Dudeney (1911)



**1917 : 4 pièces impossible!**



NOTE: These solutions are validated only numerically.  
 There is a small chance that some of them are not mathematically exact.

— SHIFT  
 - - - - MIRROR  
 ..... REARRANGE

