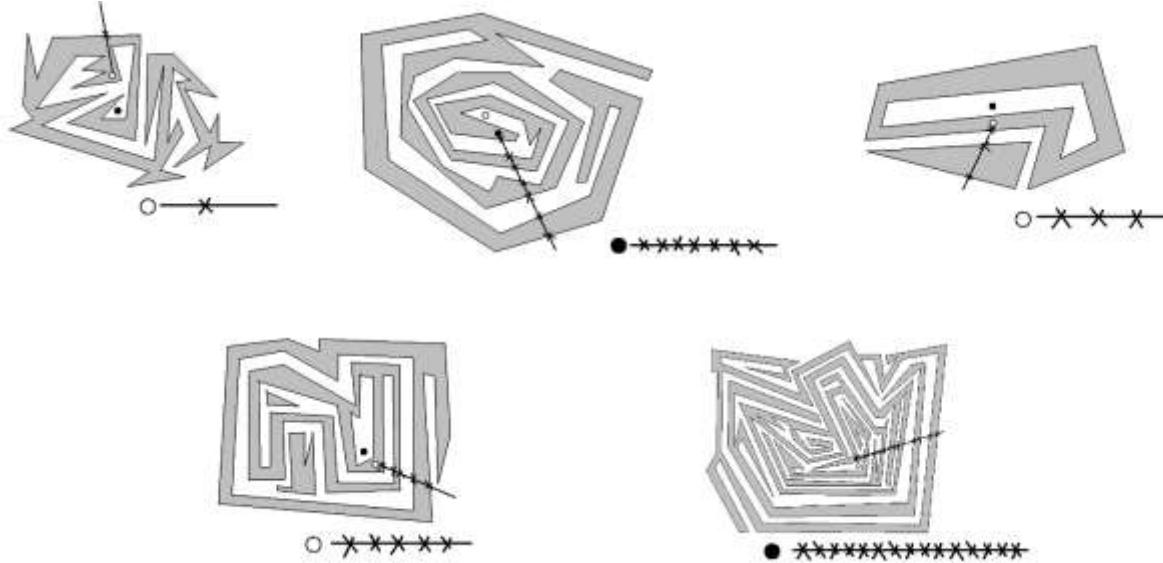


MORE WITHOUT WORDS

Mathematical Puzzles to Confound and Delight



MWW 4: SOLUTION



For any path, be it straight or curved, starting from outside a closed loop to reach point inside the loop it must cross the edge of the loop an odd number of times. This gives a quick means to determine whether a given point is in the interior of a loop:

Draw a path from outside the loop to the given point. If that path crosses the edge of the loop an odd number of times, the given point is in the interior of the loop; the exterior of the loop otherwise

(This observation helps with WW1.)