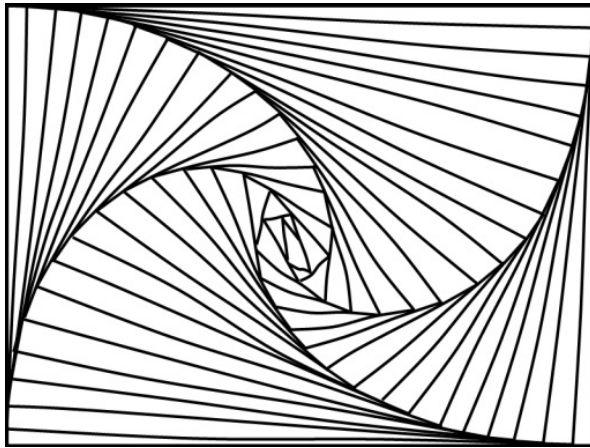


MORE LINE PATTERNS

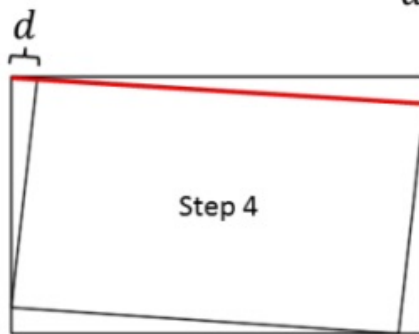
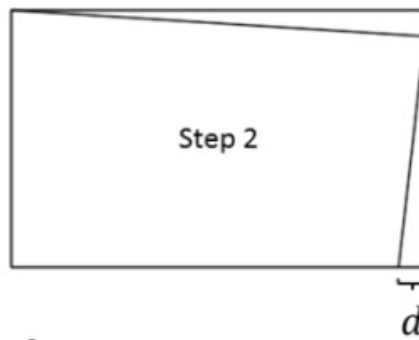
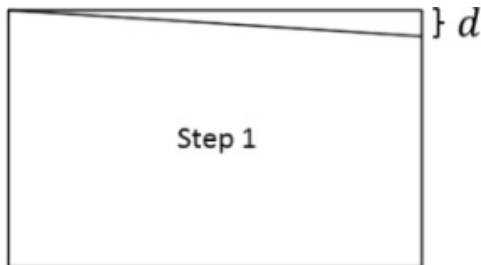


a. To draw this pattern, first draw a rectangle.

b. Choose a small distance d and mark this distance along the edge of the rectangle and draw a straight line from one vertex of the rectangle to this point as in Step 1.

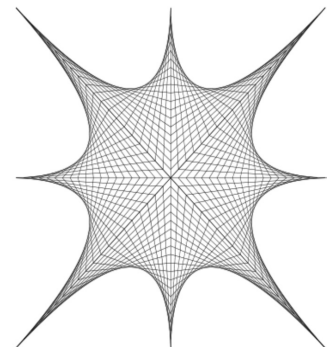
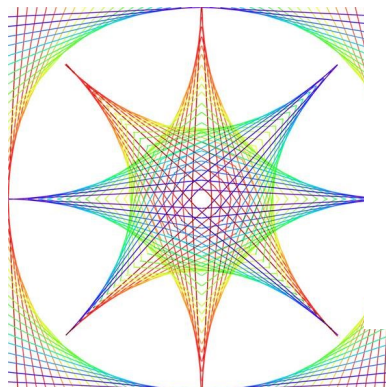
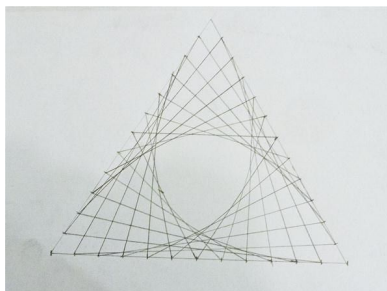
c. Mark the distance d along the next edge and draw the straight line as in Step 2.

c. Repeat this construction drawing straight lines spiralling inwards, marking the distance d along the next straight line that you will meet, as shown in Steps 3 and 4.



d. Continue this construction drawing straight lines spiralling inwards, marking the distance d each time along the next straight line that you meet and working your way towards the centre of the pattern.

Draw these patterns or create your own.



HELP

Each time you repeat the 4 steps as described you draw a rectangle. Each rectangle is smaller than the previous one and rotated clockwise.

See <https://aiminghigh.aimssec.ac.za/grades-7-to-10-constructions-with-lines/>

NEXT

There is no end to the variety of patterns that you can design and create in this way. The curves that appear are called *envelopes* in mathematical language.