

Dot to dot

grade 3 measuring puzzles

© 2012 Gordon Robert Hamilton
All rights reserved.
ISBN 978-0-9879515-3-3

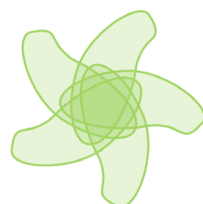
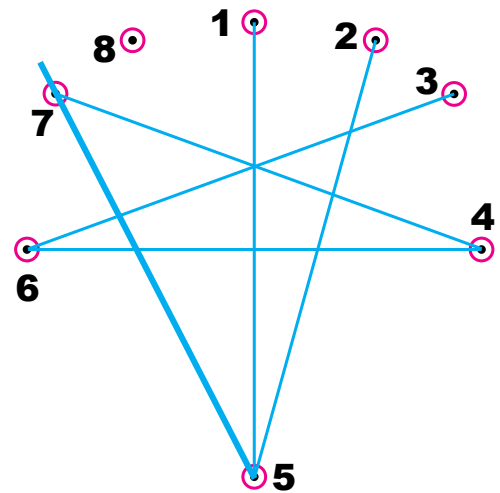
For Educators:

We learn best through hard fun.

Dot to dot measuring puzzles are for students and teachers who want practice using a ruler to measure distances. The first puzzles have only a single target distance - the students must find all points that are exactly that distance apart - and draw lines connecting them.

The puzzles can be explained to a whole class by using a meter stick to secretly place points which are exactly a meter apart. Students are then asked to guess which pairs of points are one meter apart... For the points on the right, one student has chosen points 5 & 7, but you can show that these two points are only 95 cm apart. Precision is important. 2.0 cm is not equal to 2.3 cm. Tell your students to link points only if they are exactly the target distance apart... otherwise they won't end up with pictures - just a big mess!

The puzzles become harder as one progresses through the book. Later puzzles might have more than one target distance. Others might have points that are not connected to any others. Don't be fooled into connecting them! Enjoy!

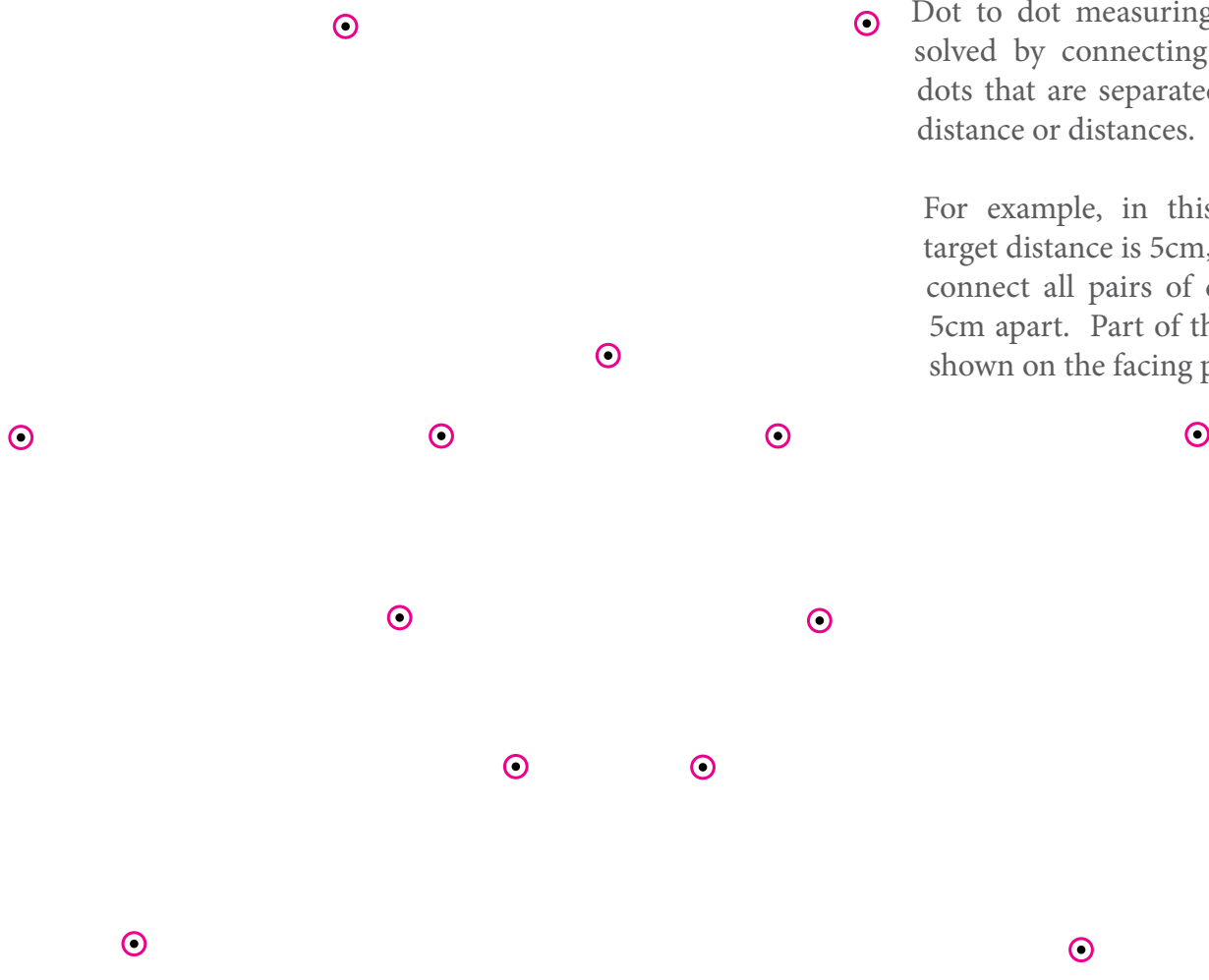


www.MathPickle.com

Dedicated to Professor Richard Guy who continues to inspire in his ninth decade.

© 2012 Gordon Robert Hamilton. All rights reserved.

Dot to dot measuring puzzles

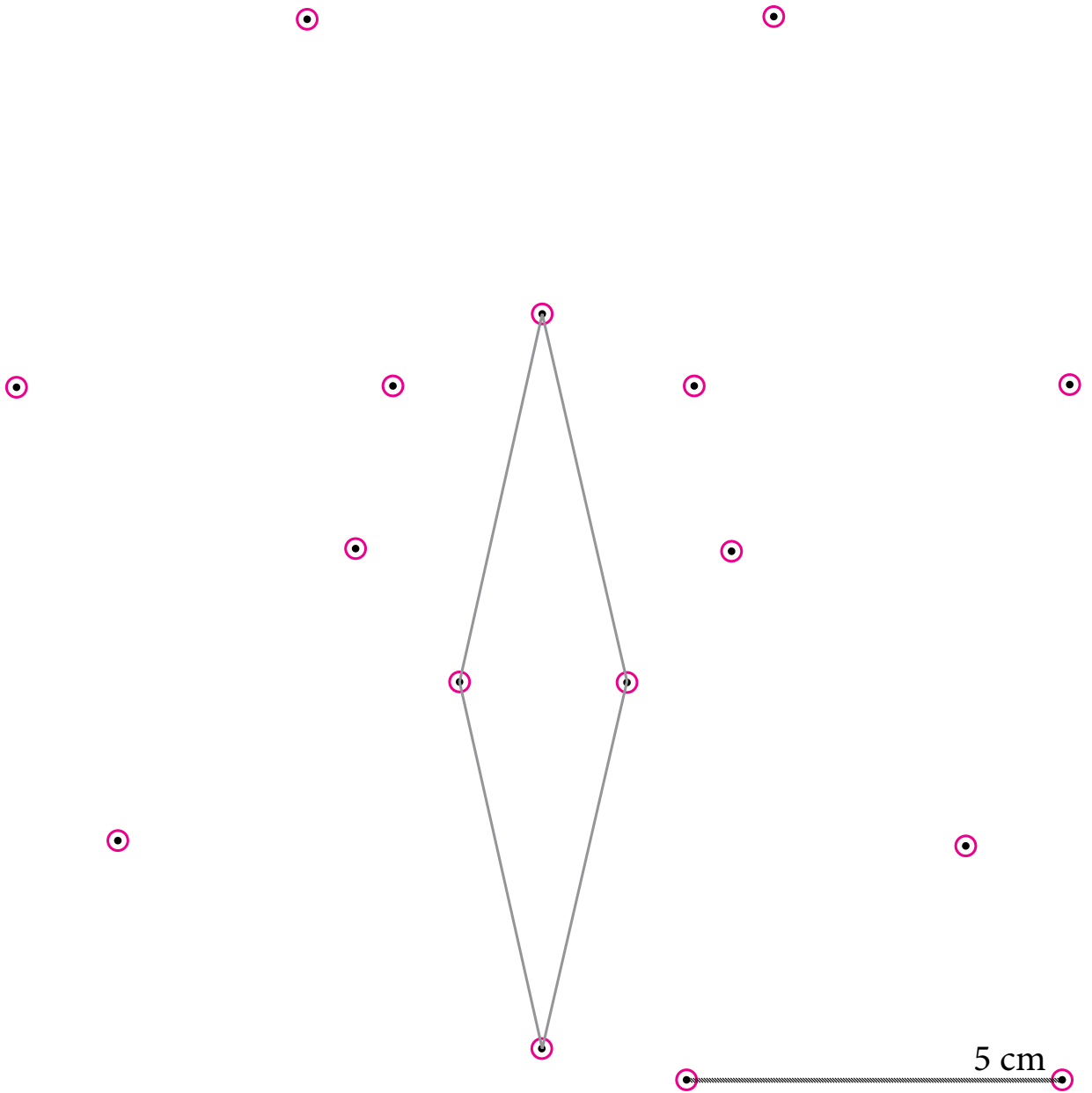


- Dot to dot measuring puzzles are solved by connecting all pairs of dots that are separated by a target distance or distances.

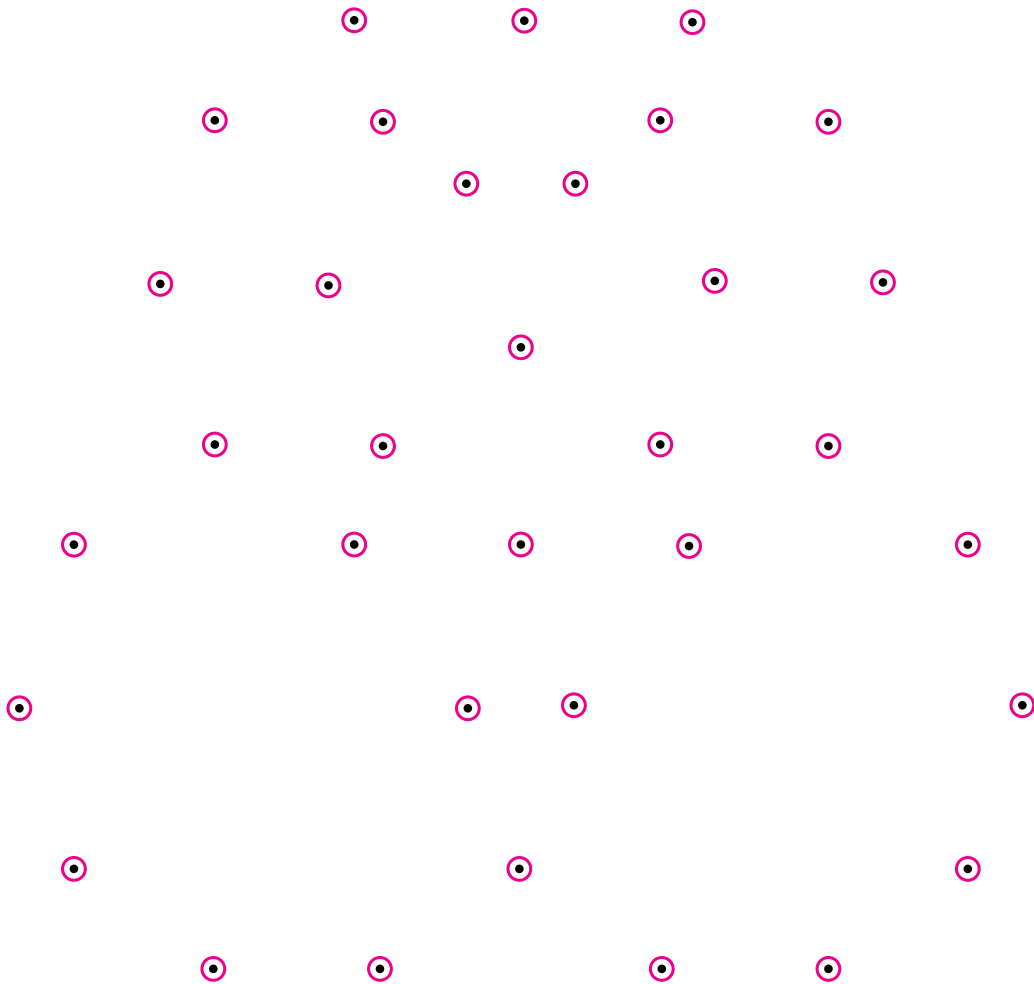
For example, in this puzzle the target distance is 5cm, so you must connect all pairs of dots that are 5cm apart. Part of the solution is shown on the facing page.

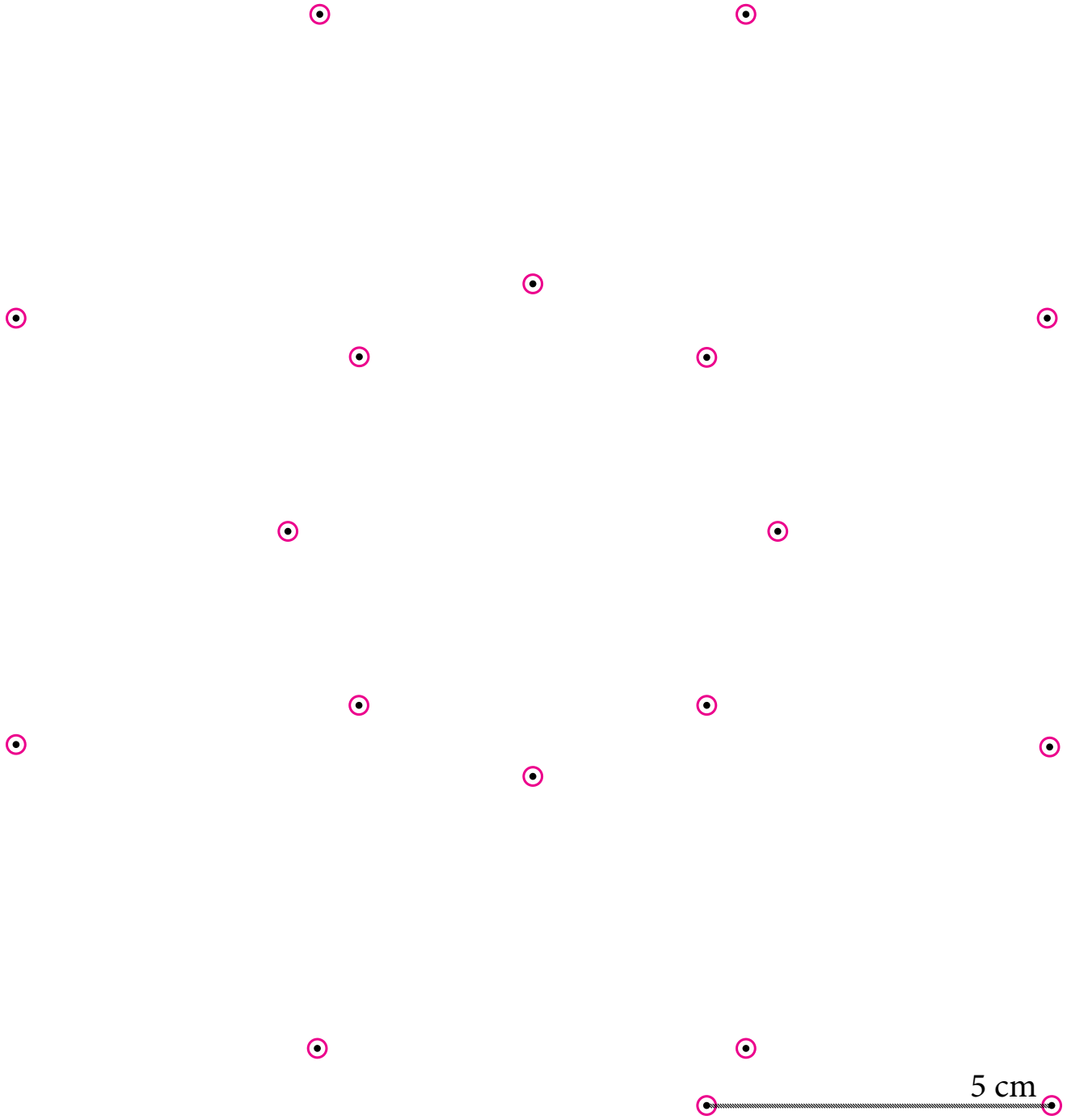
The two points below give the target distance. Don't try to connect these points to the puzzle.



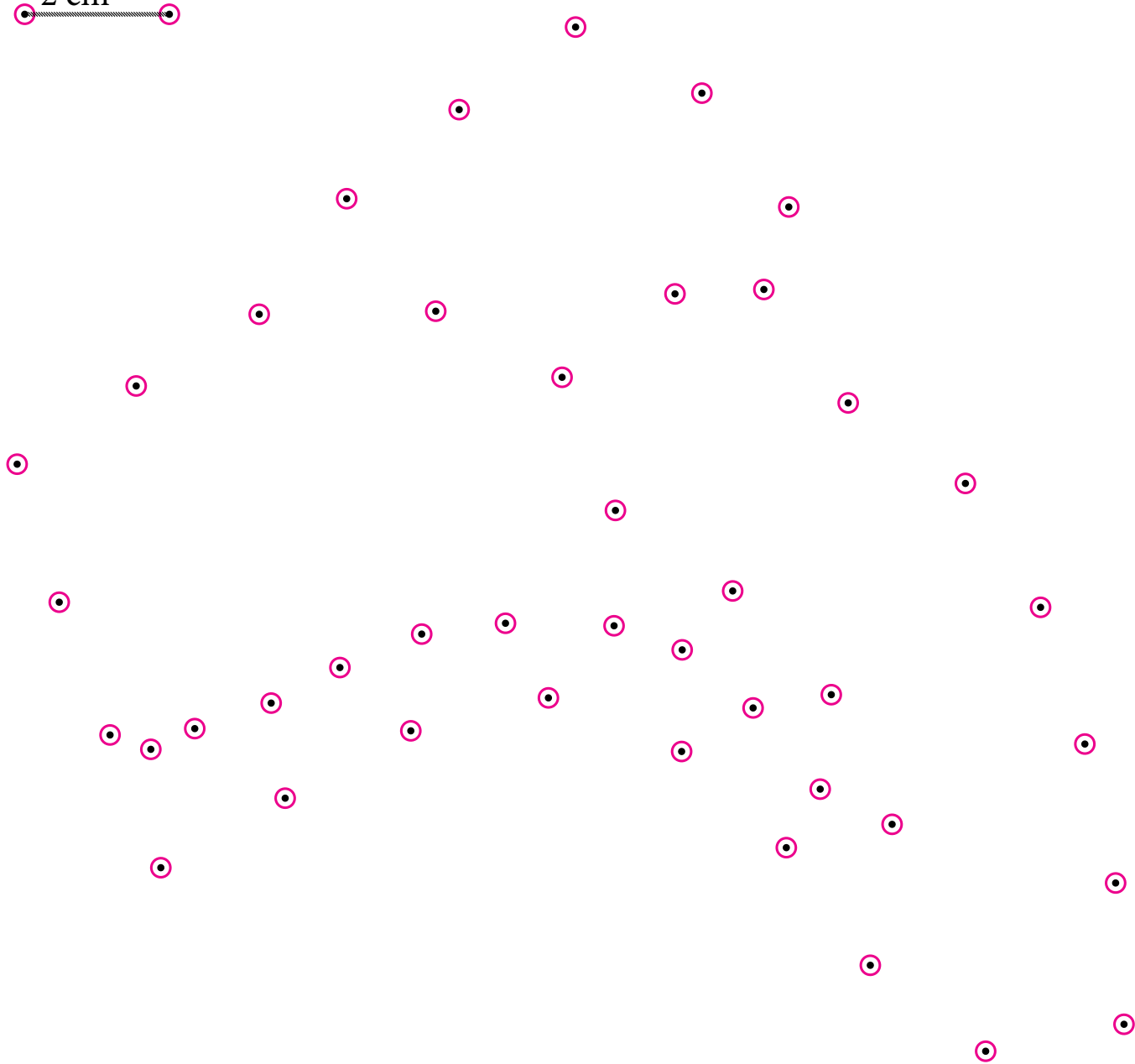


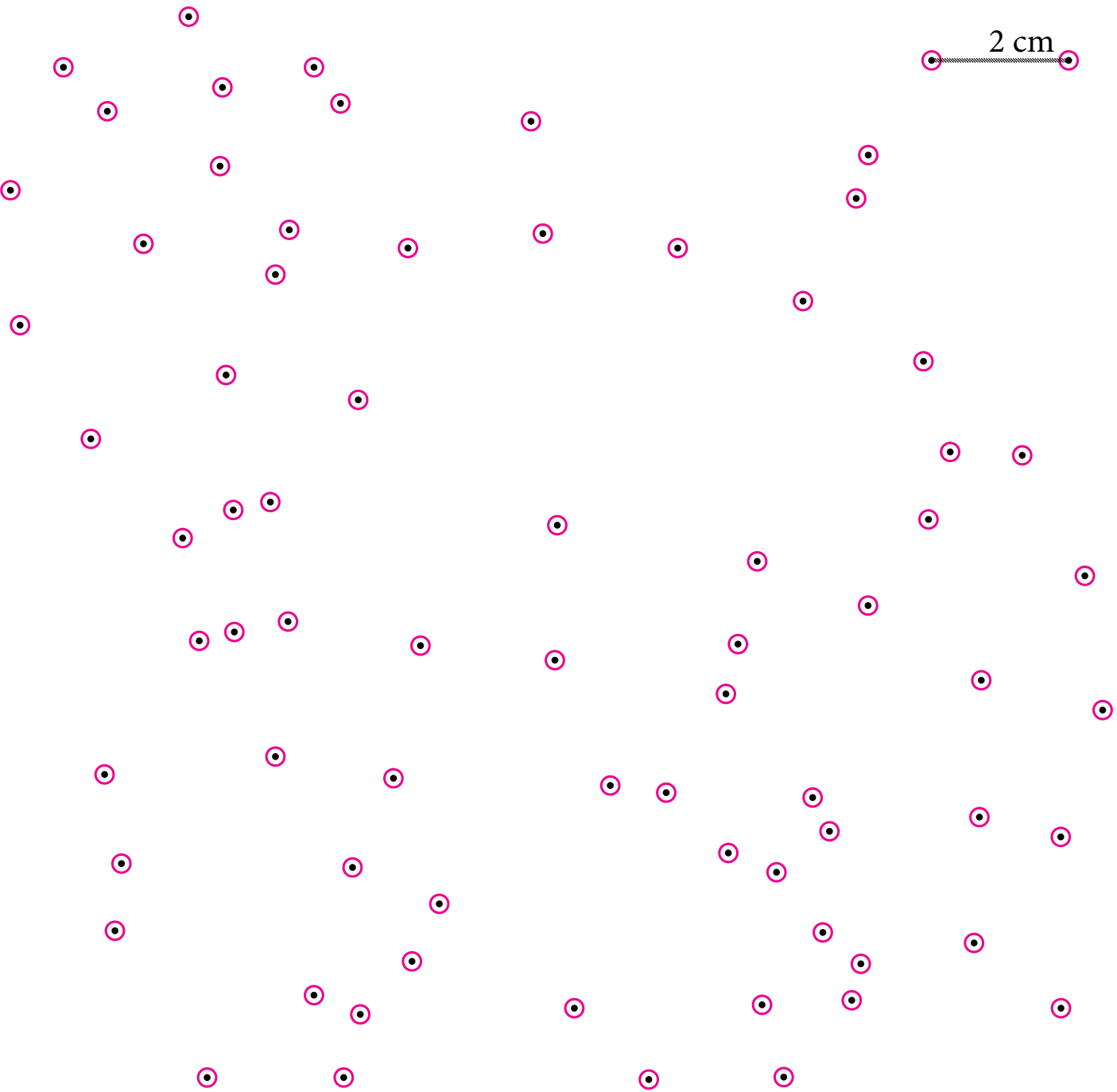
2 cm

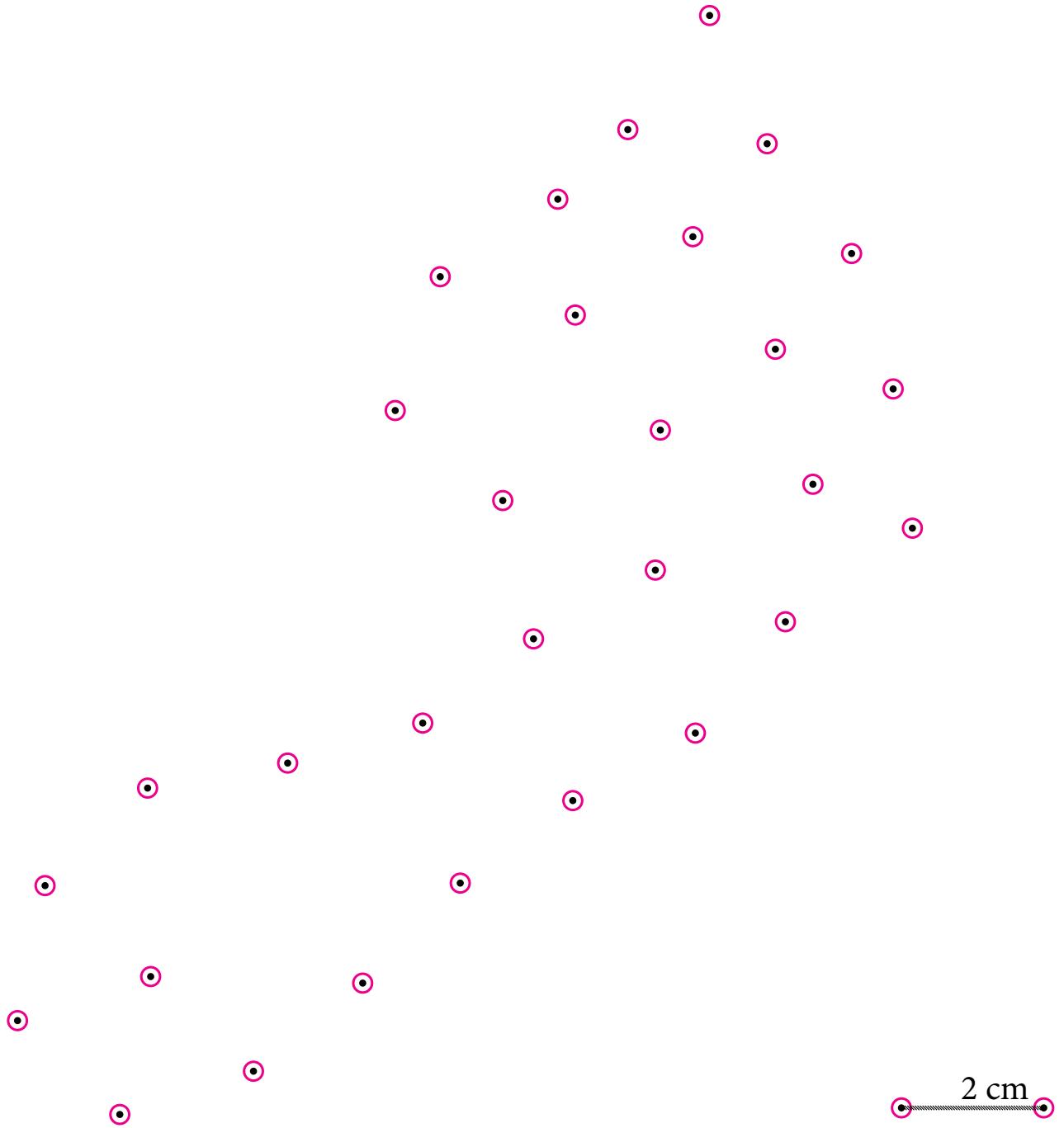


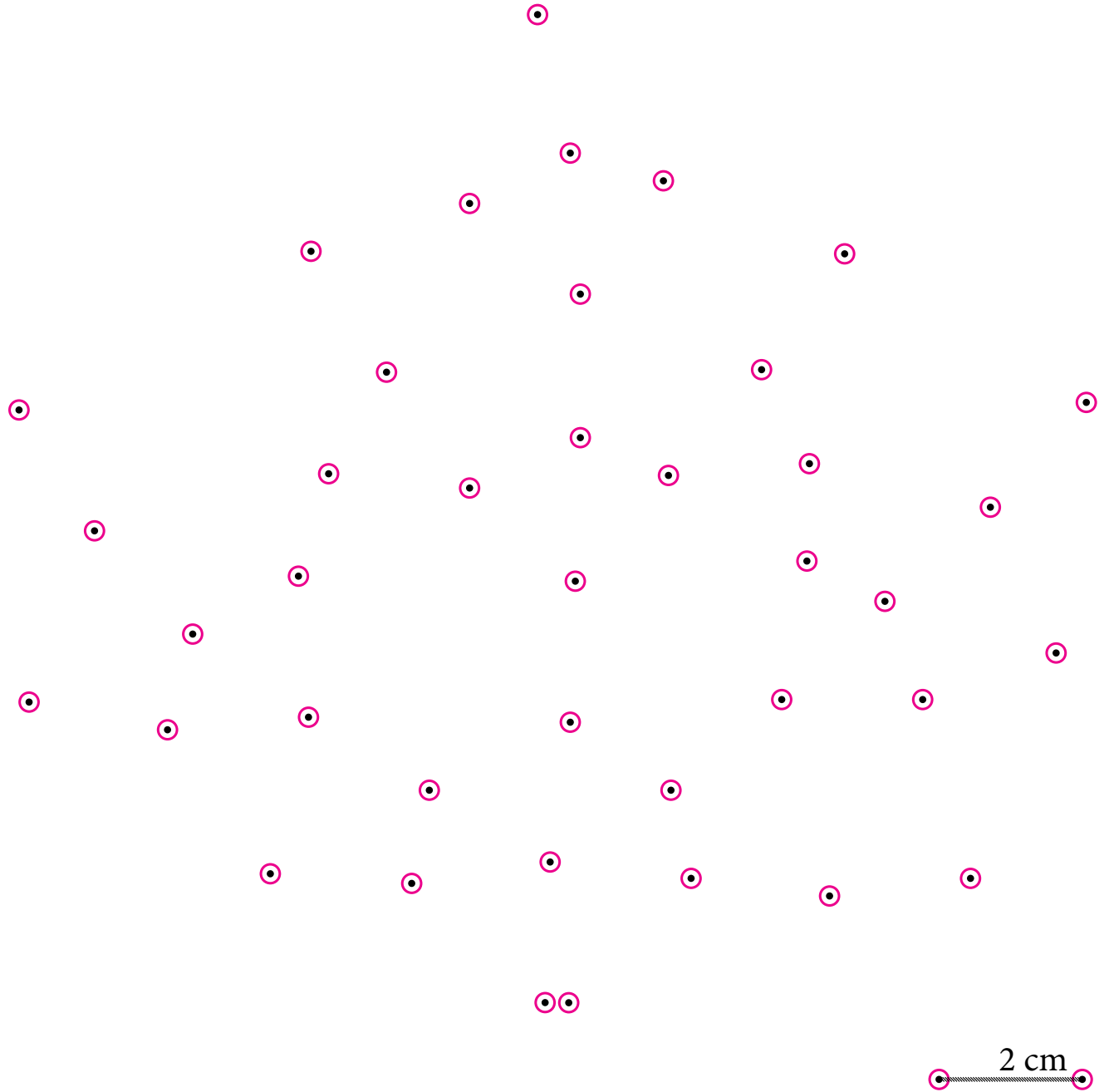


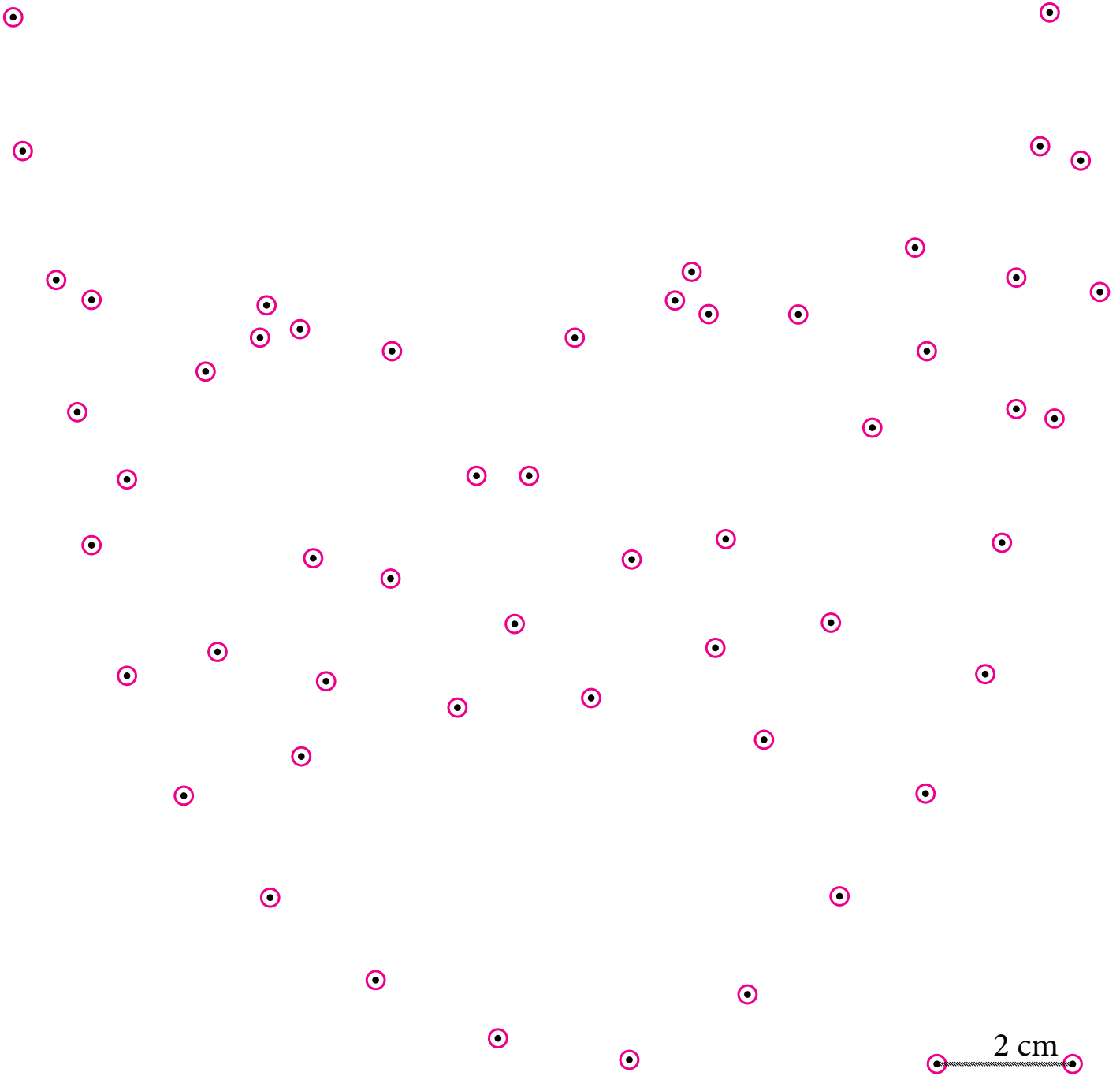
2 cm

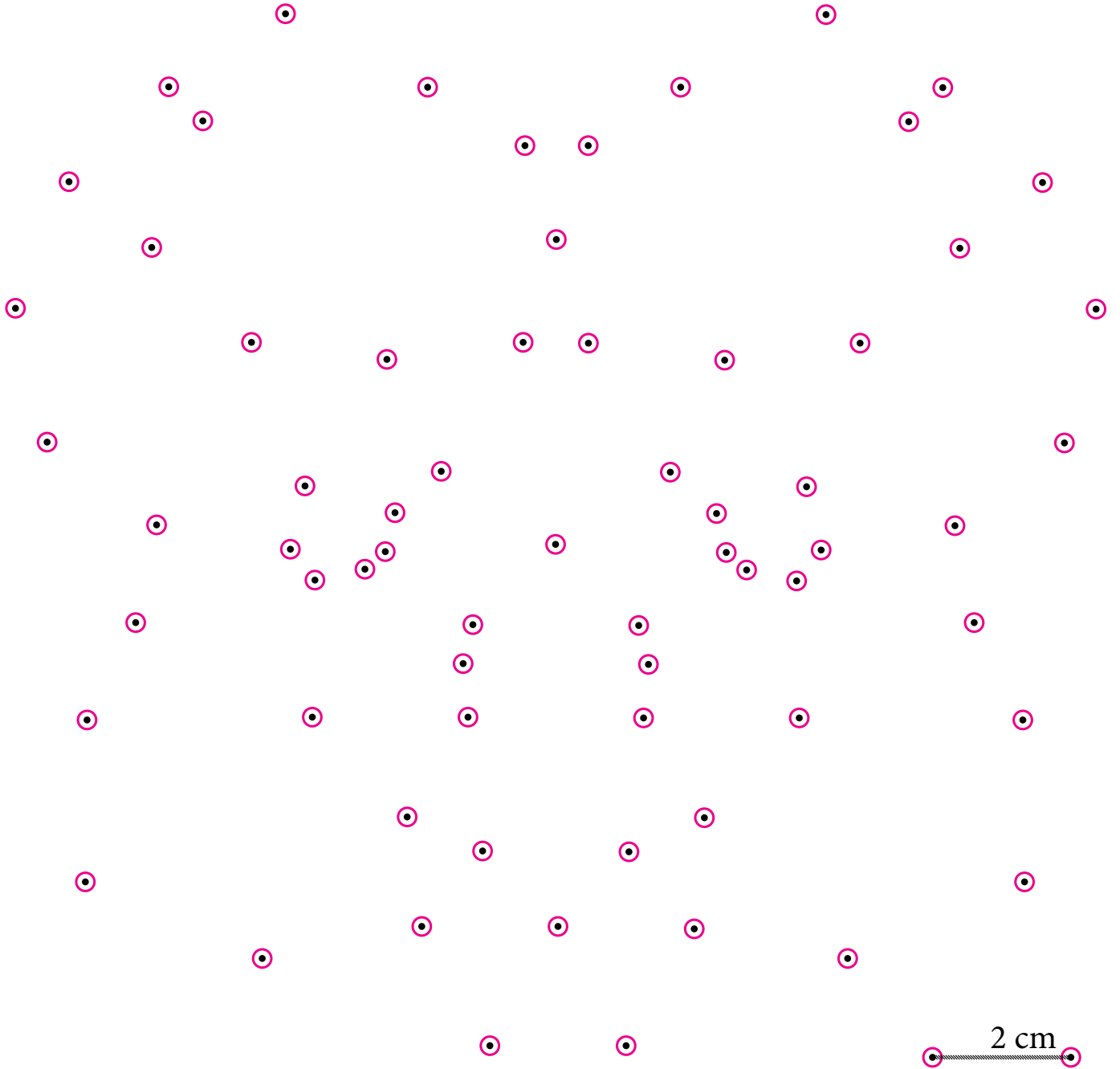


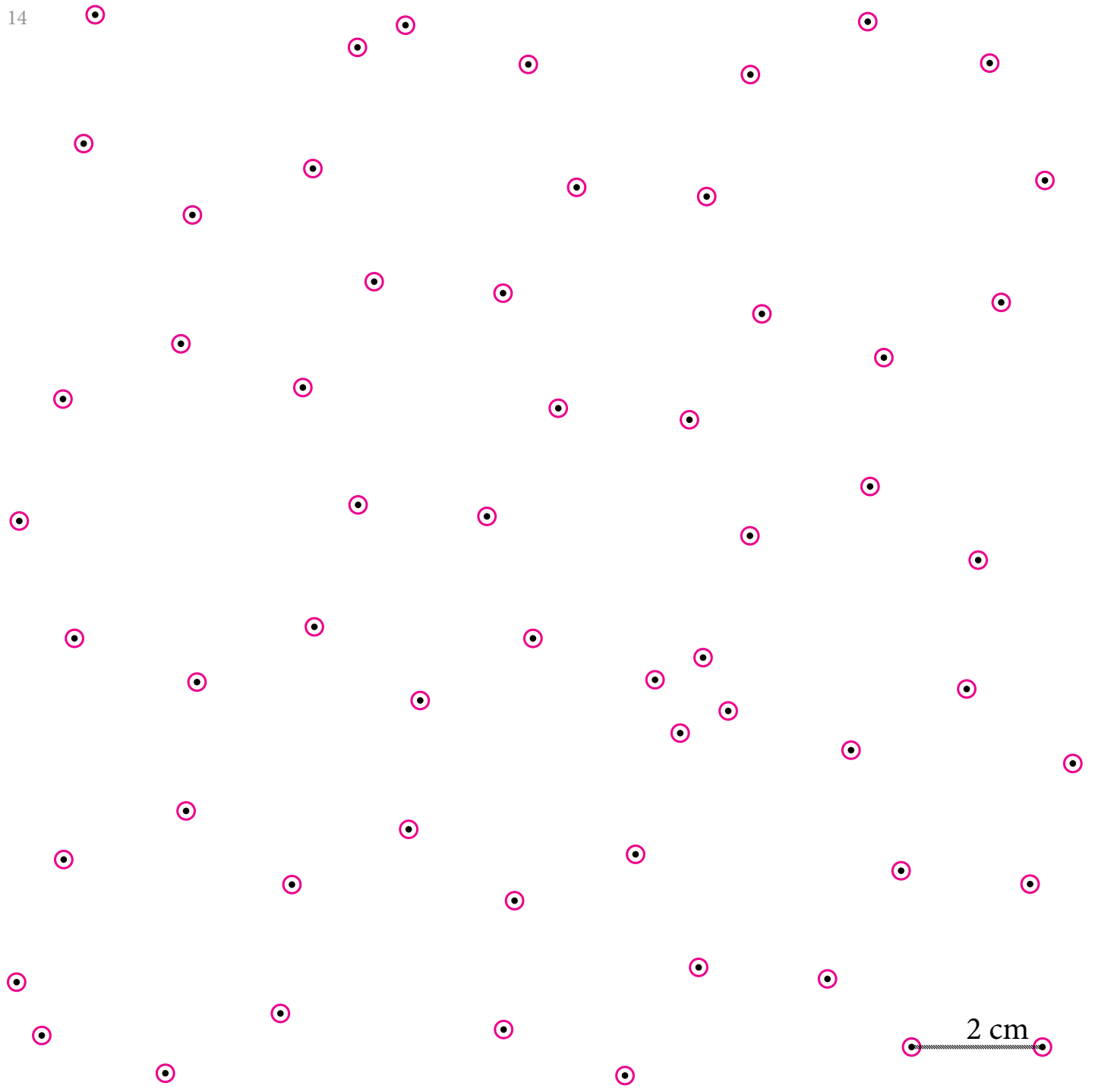


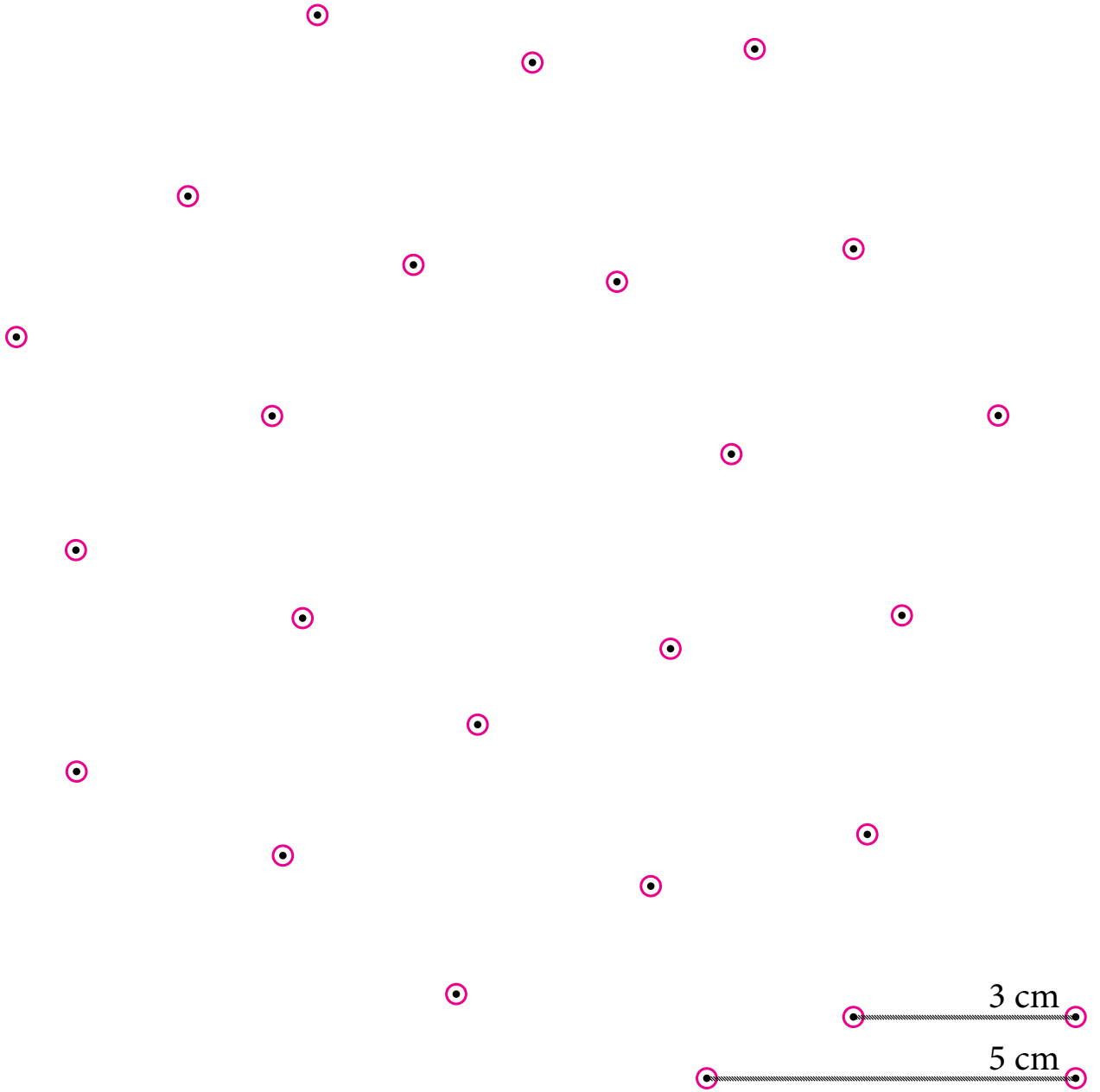


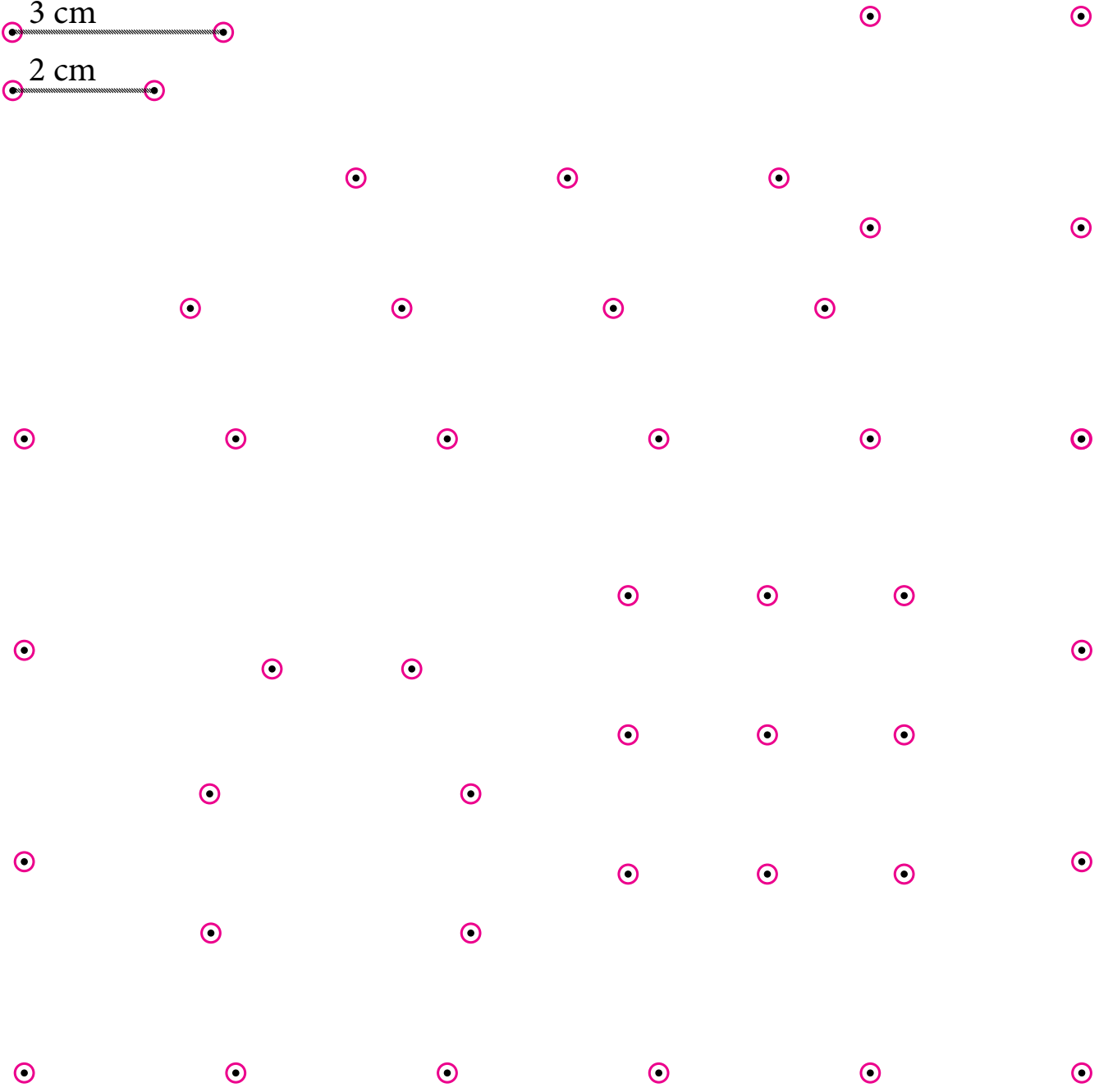
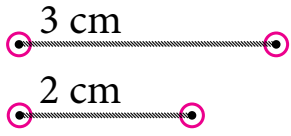


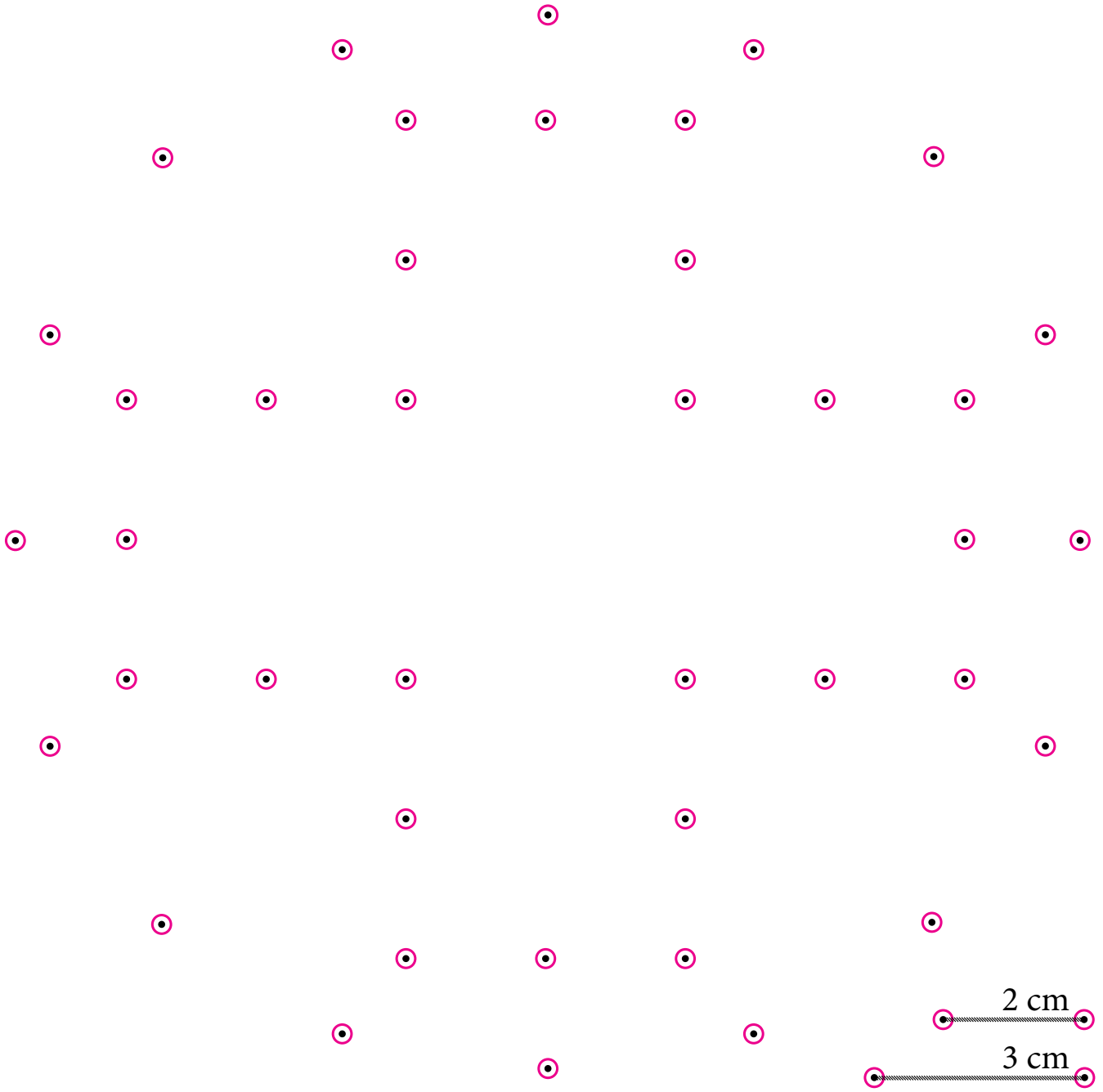


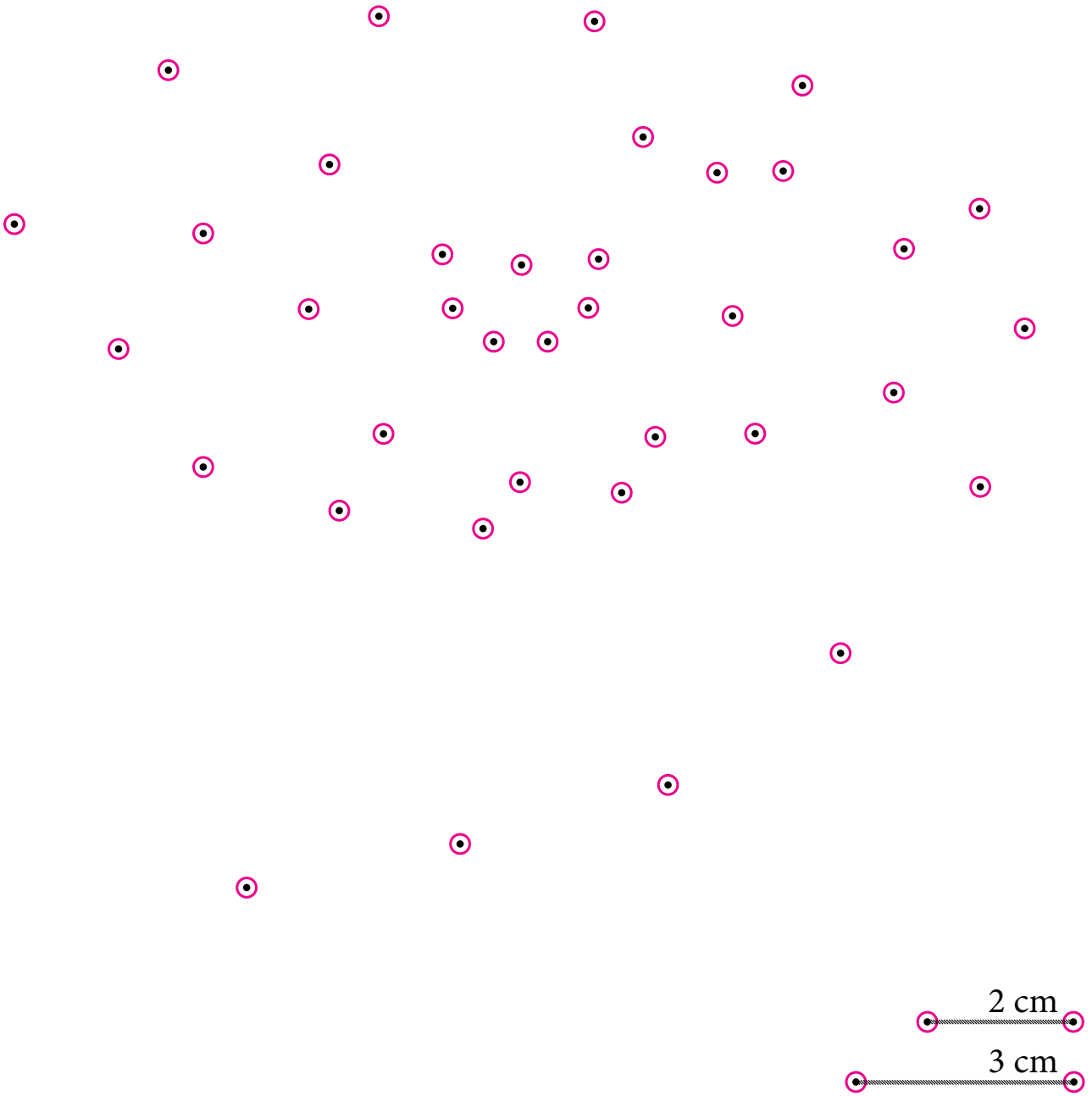


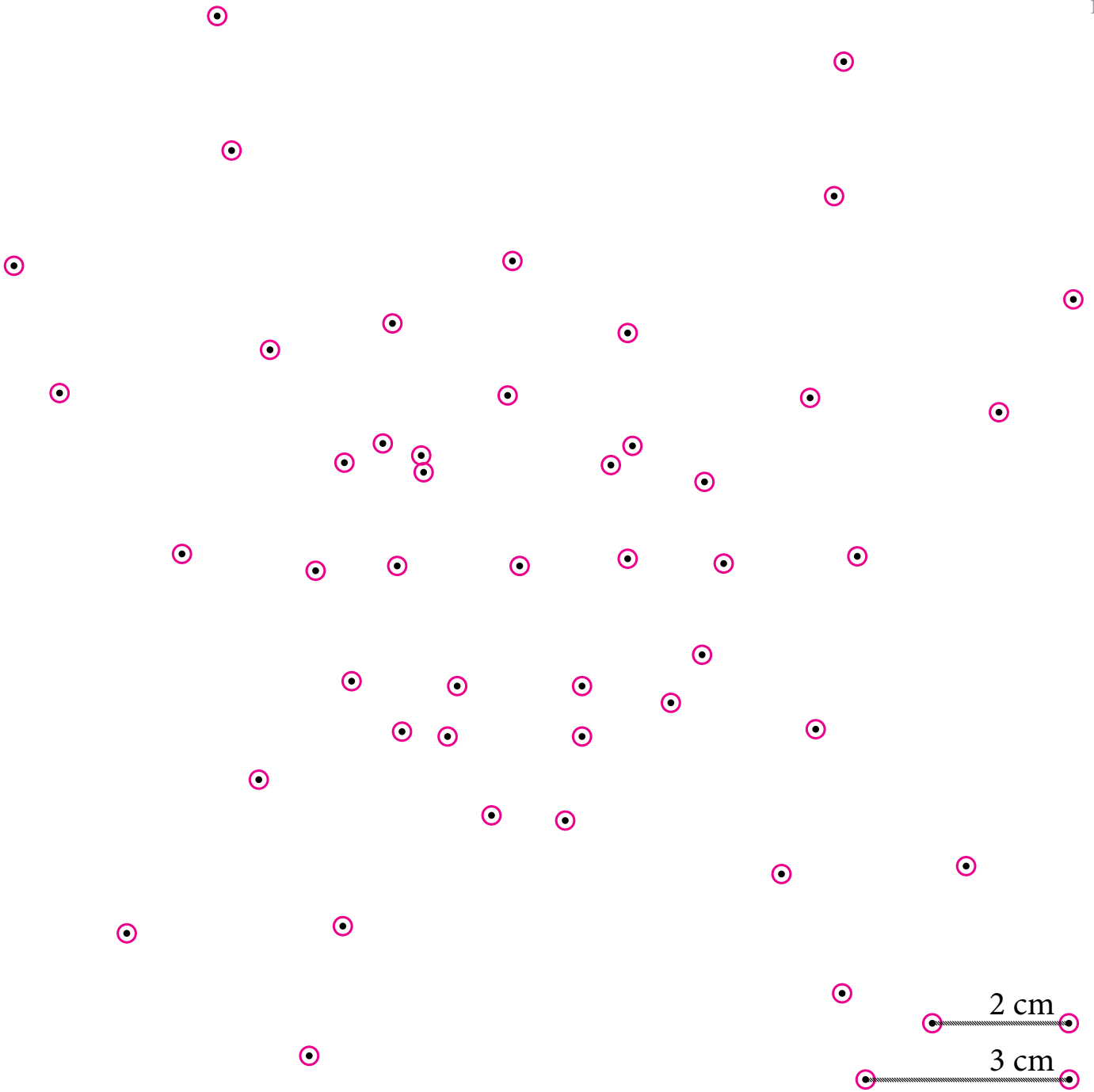


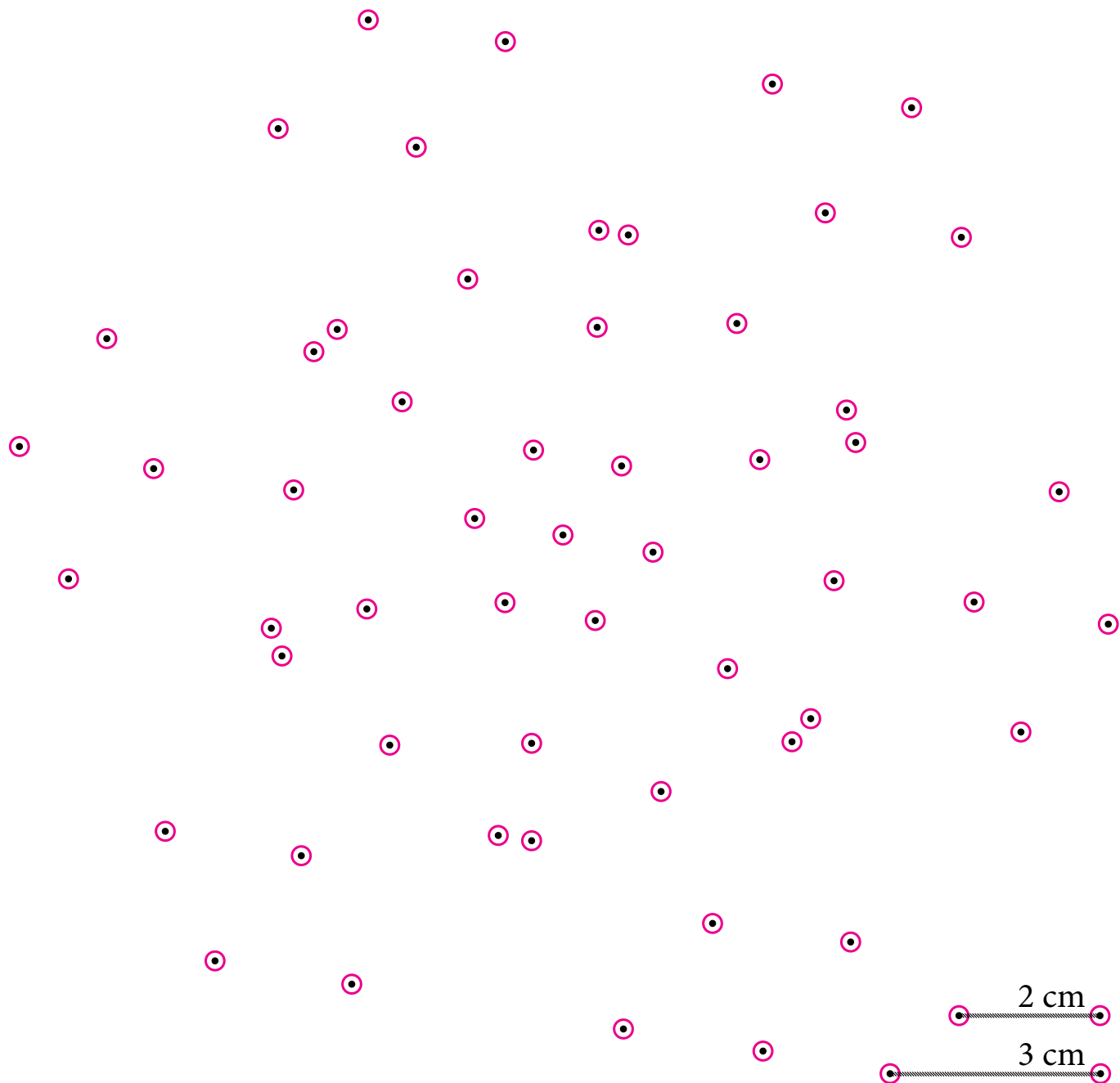


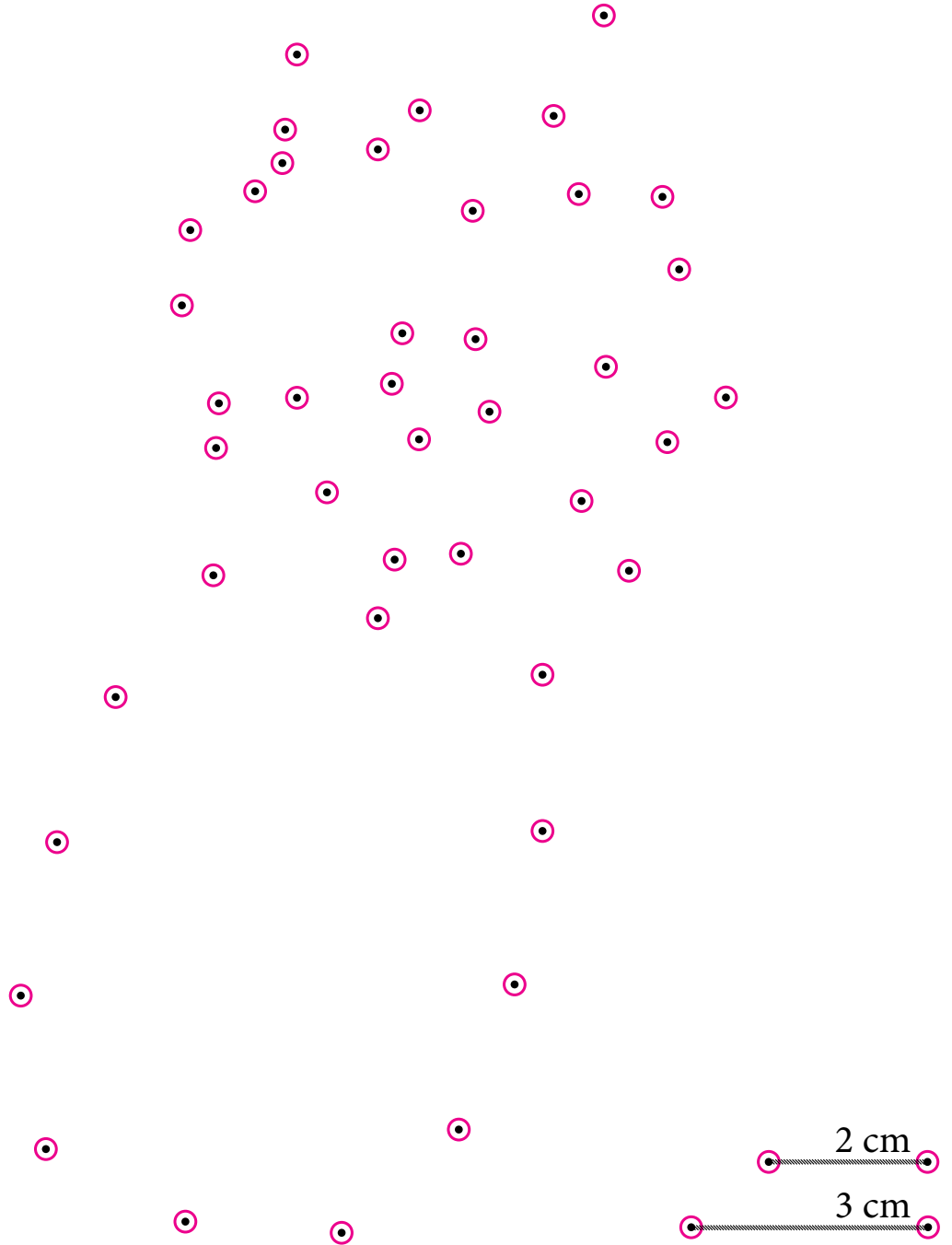


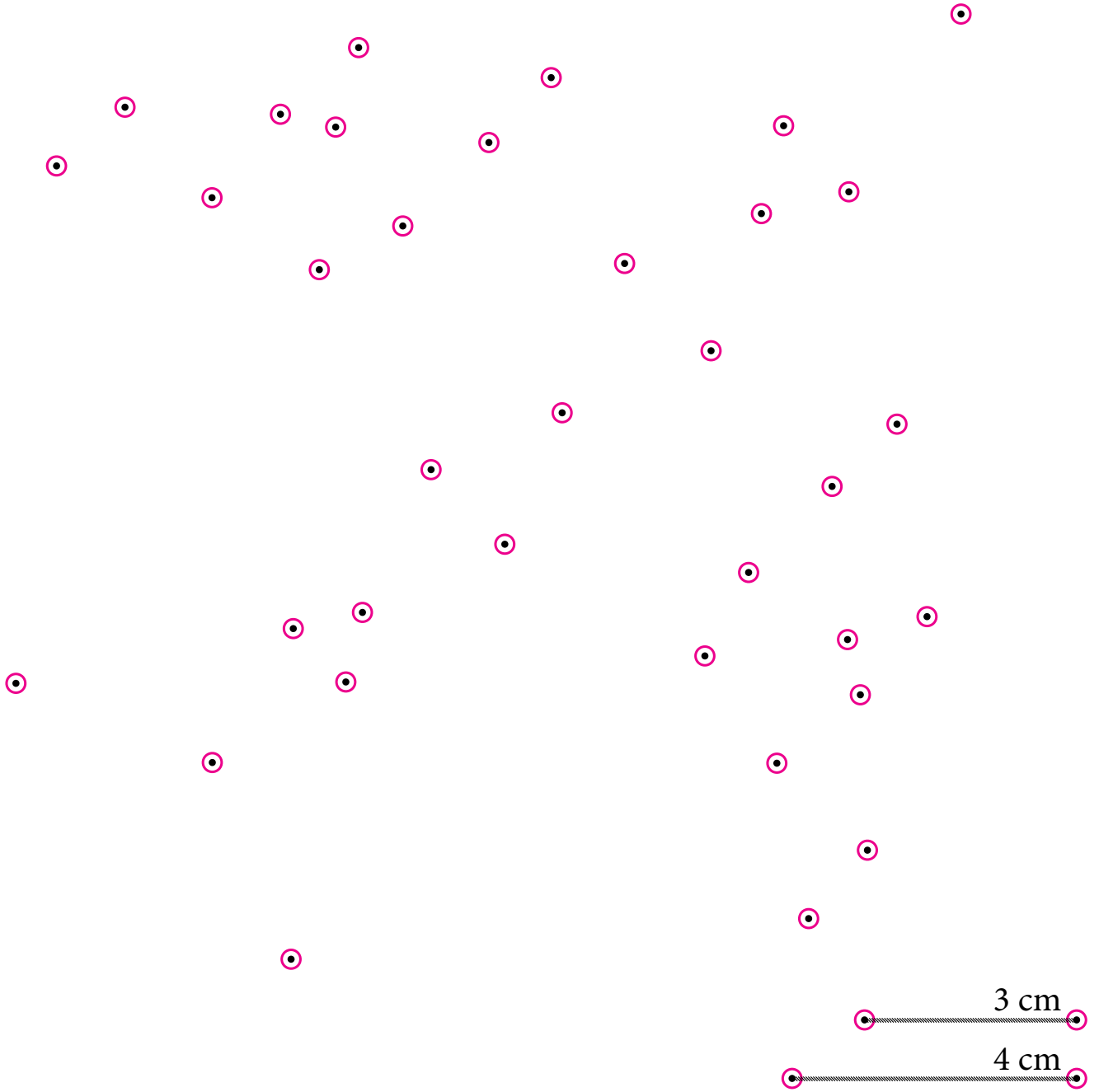


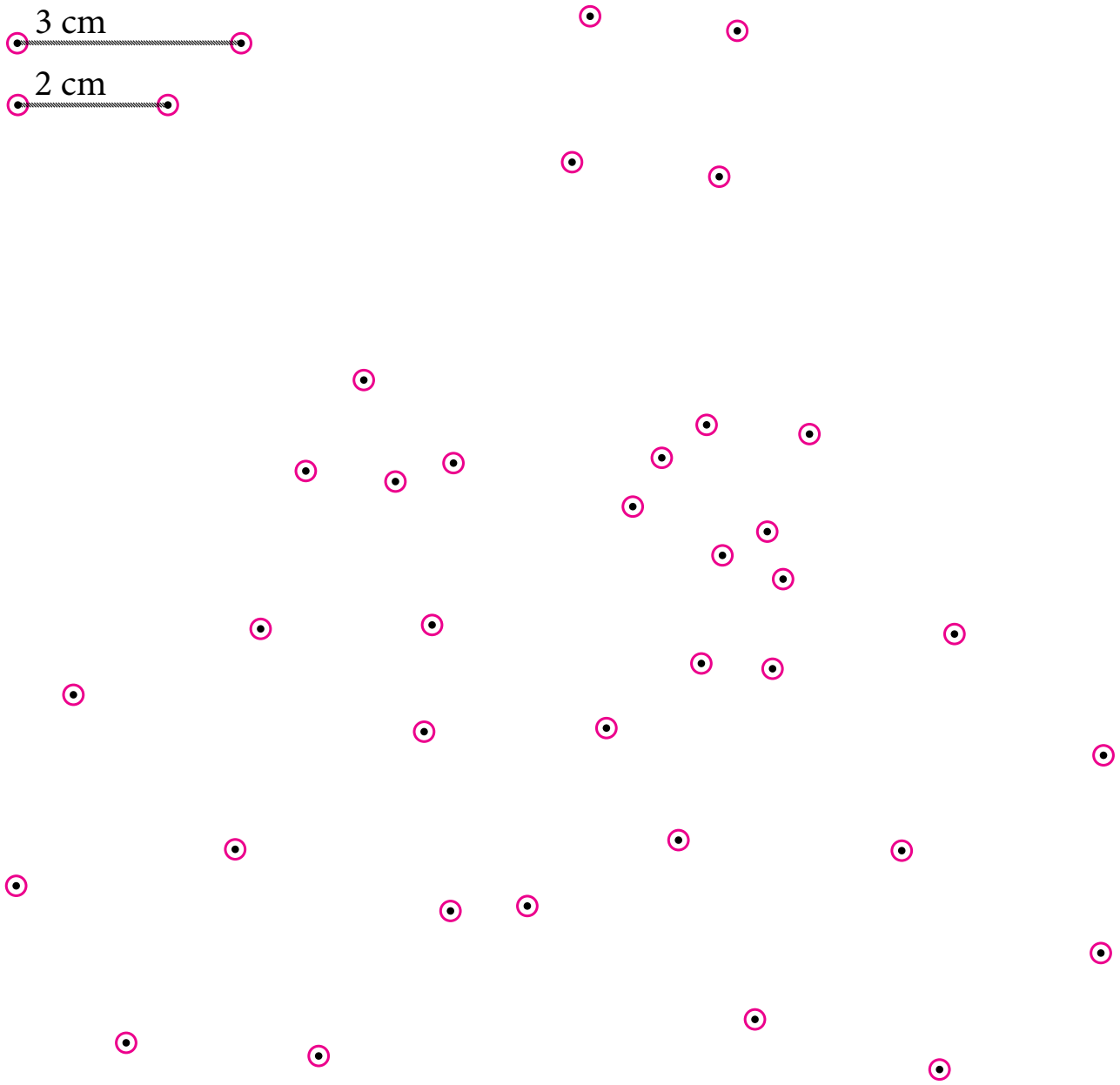
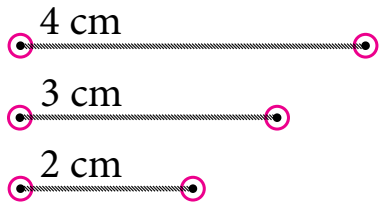


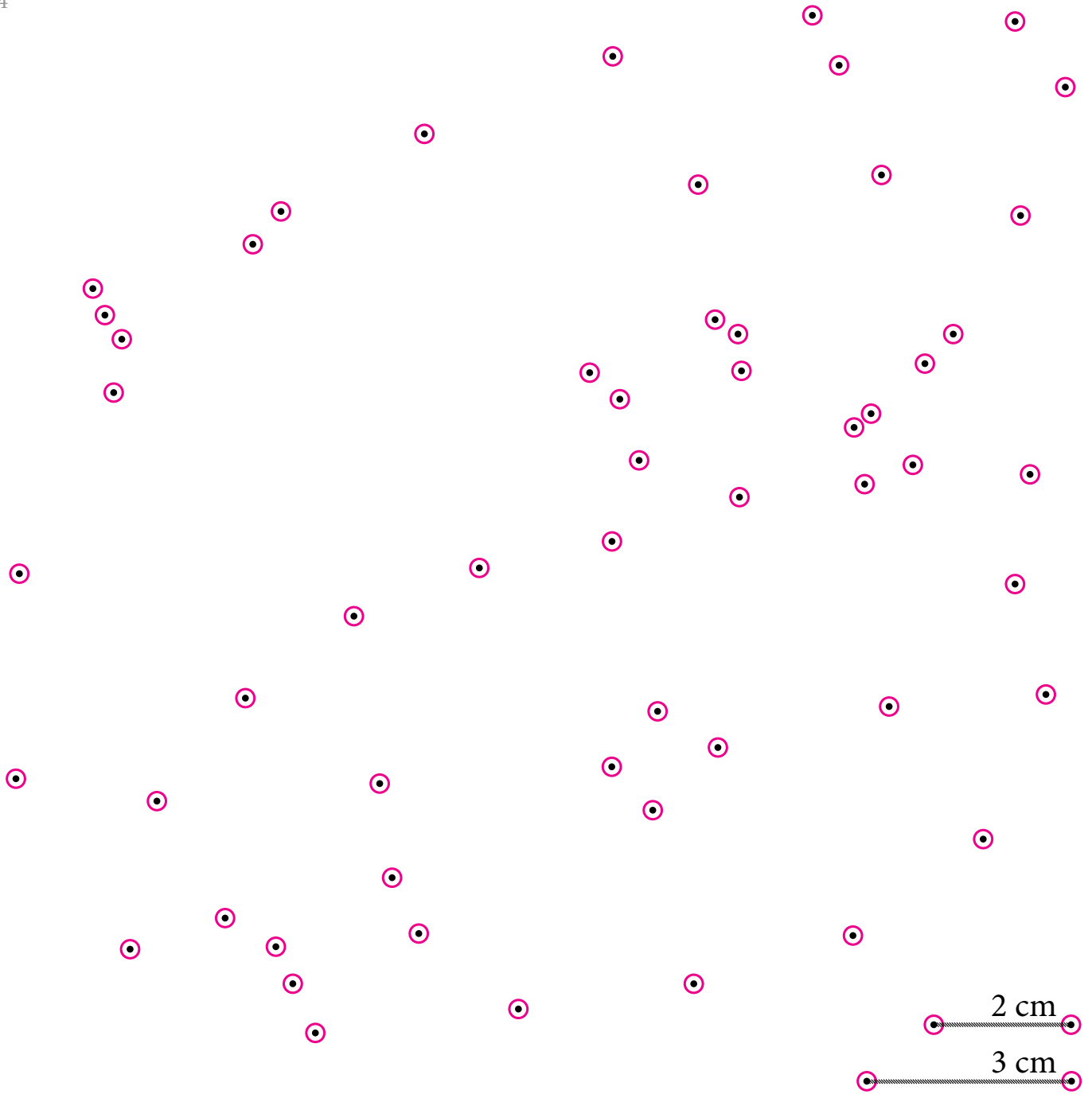


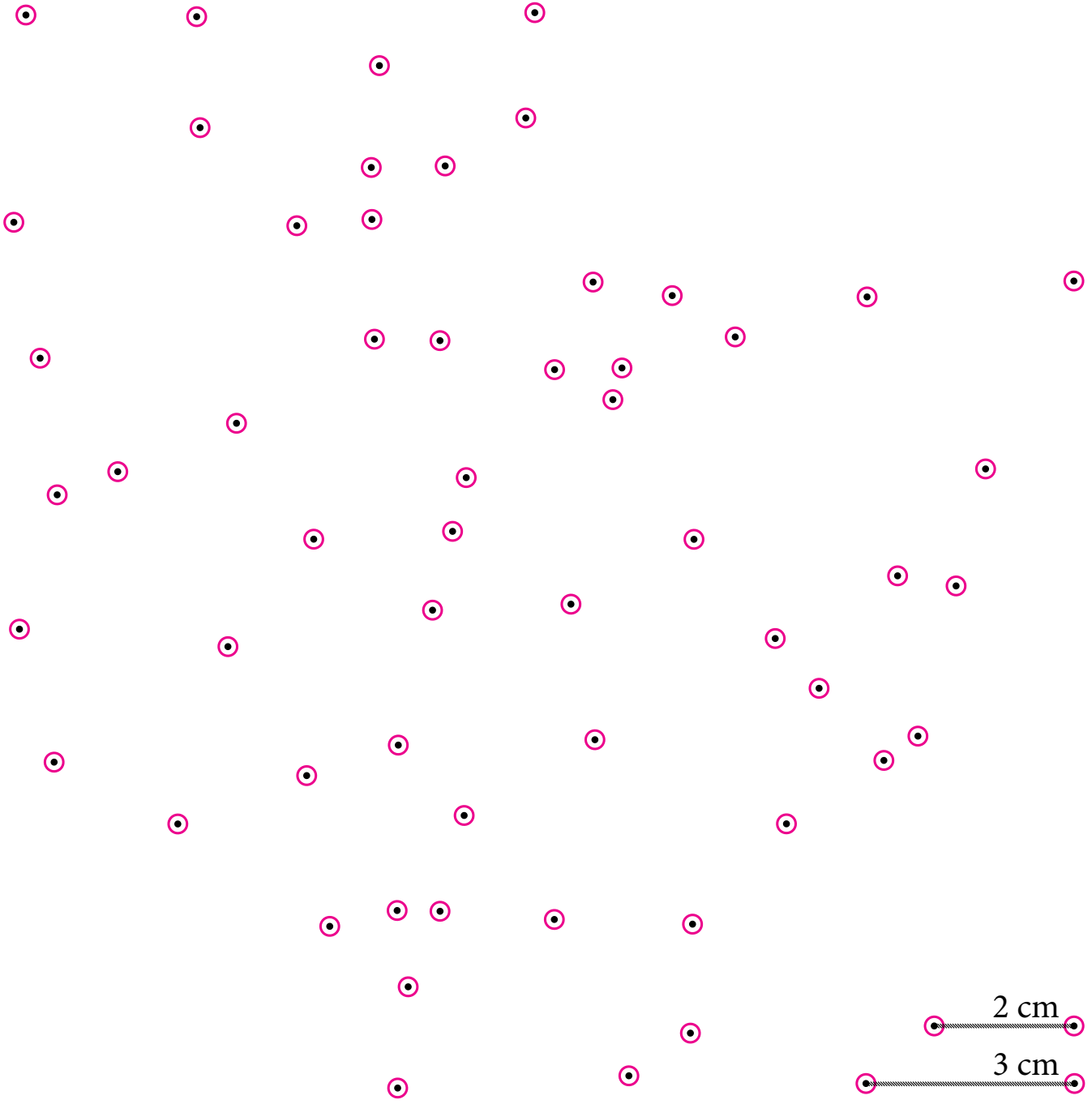




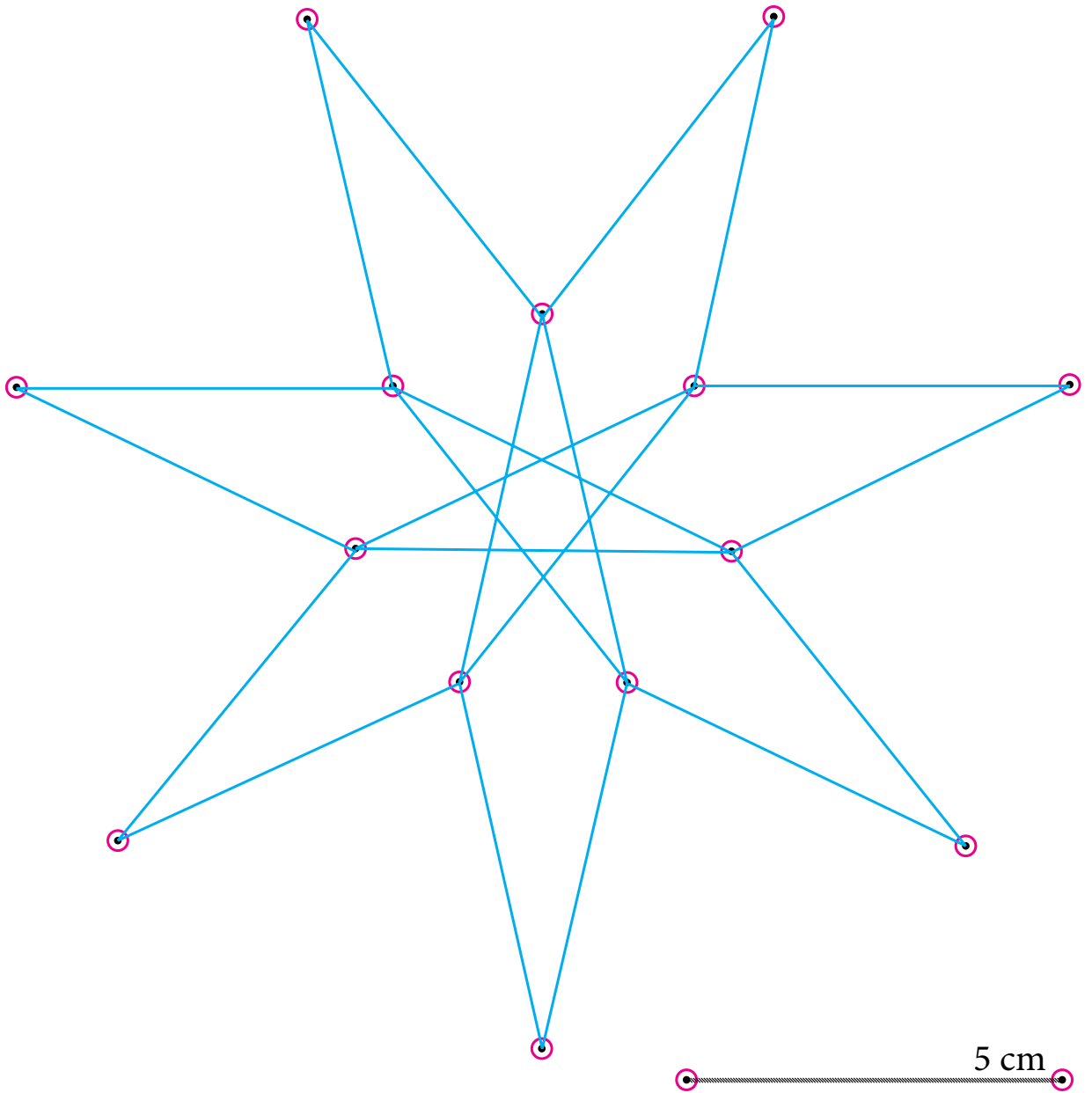




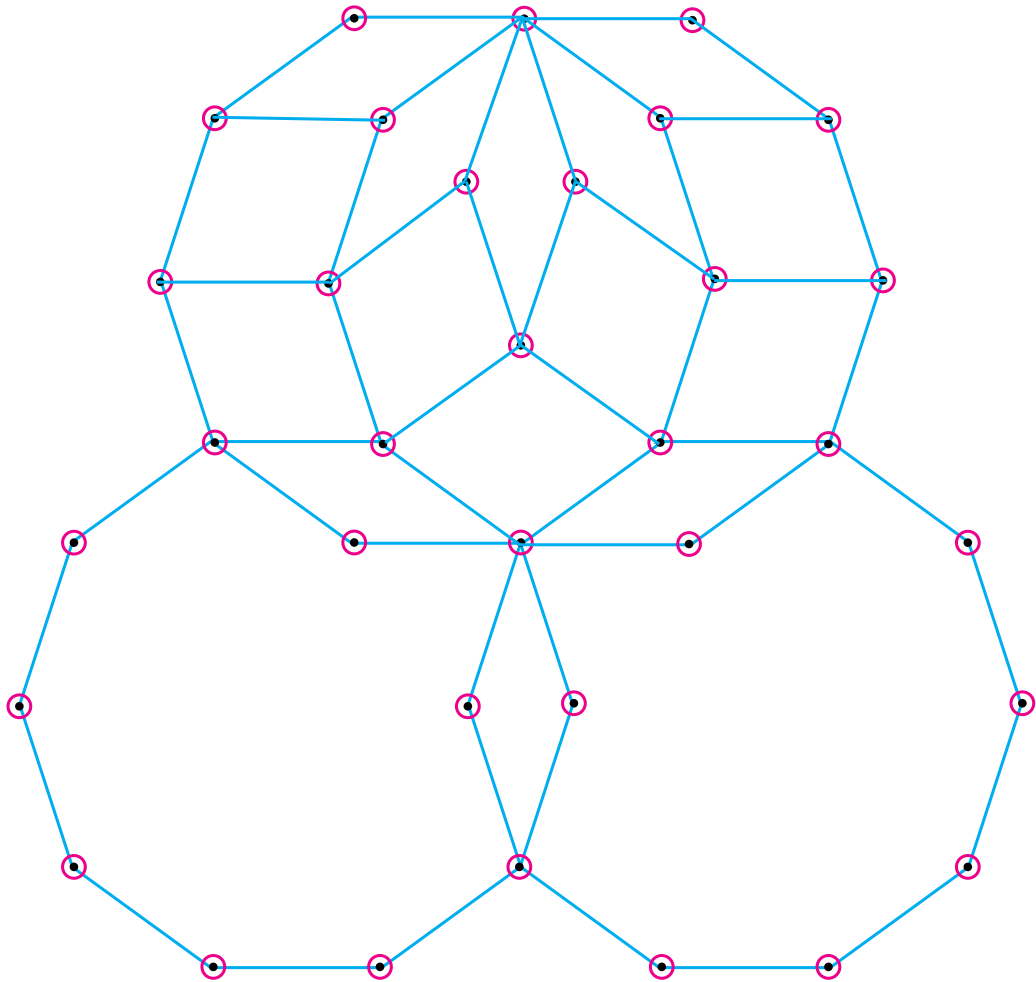


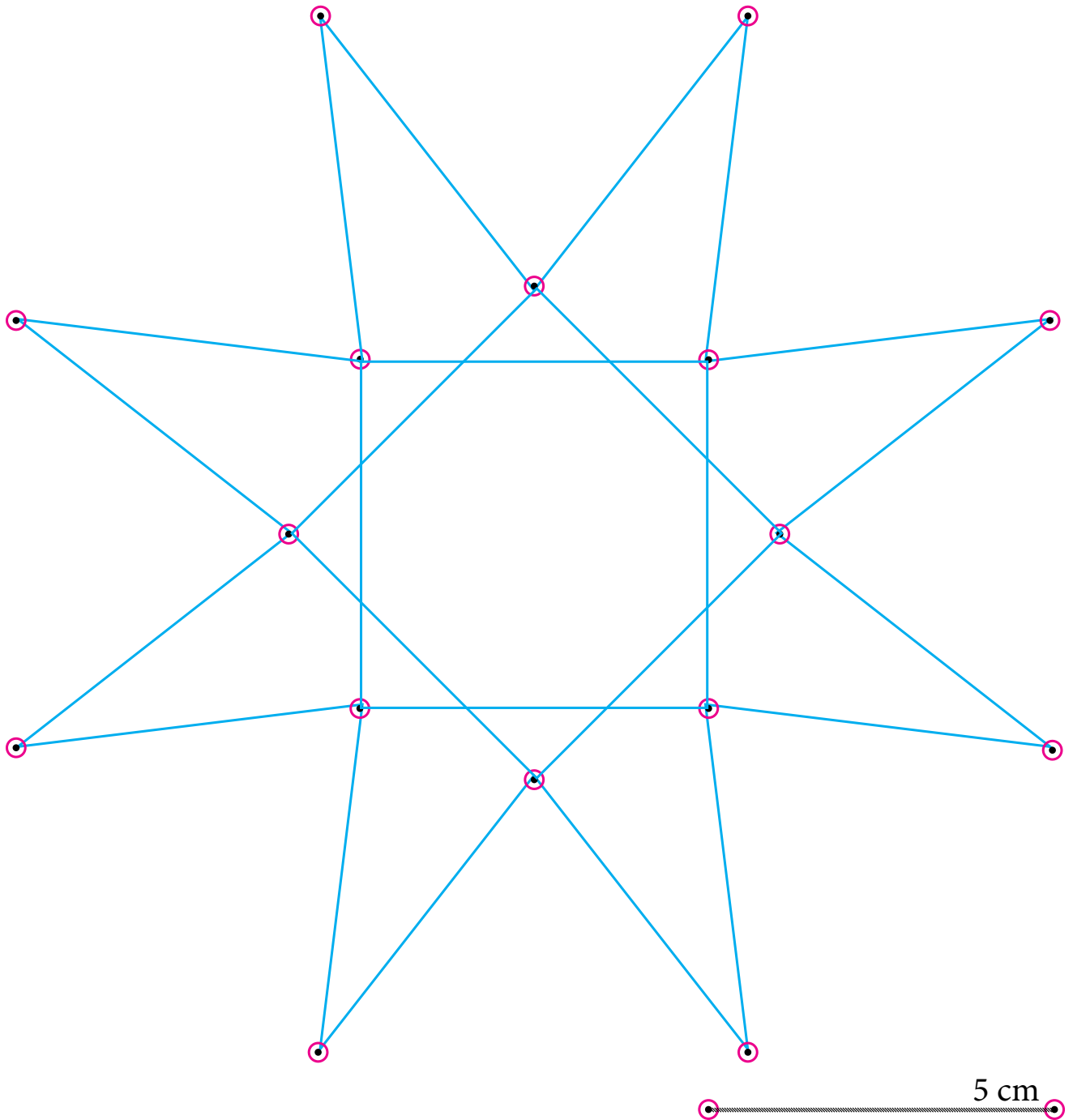


Solutions

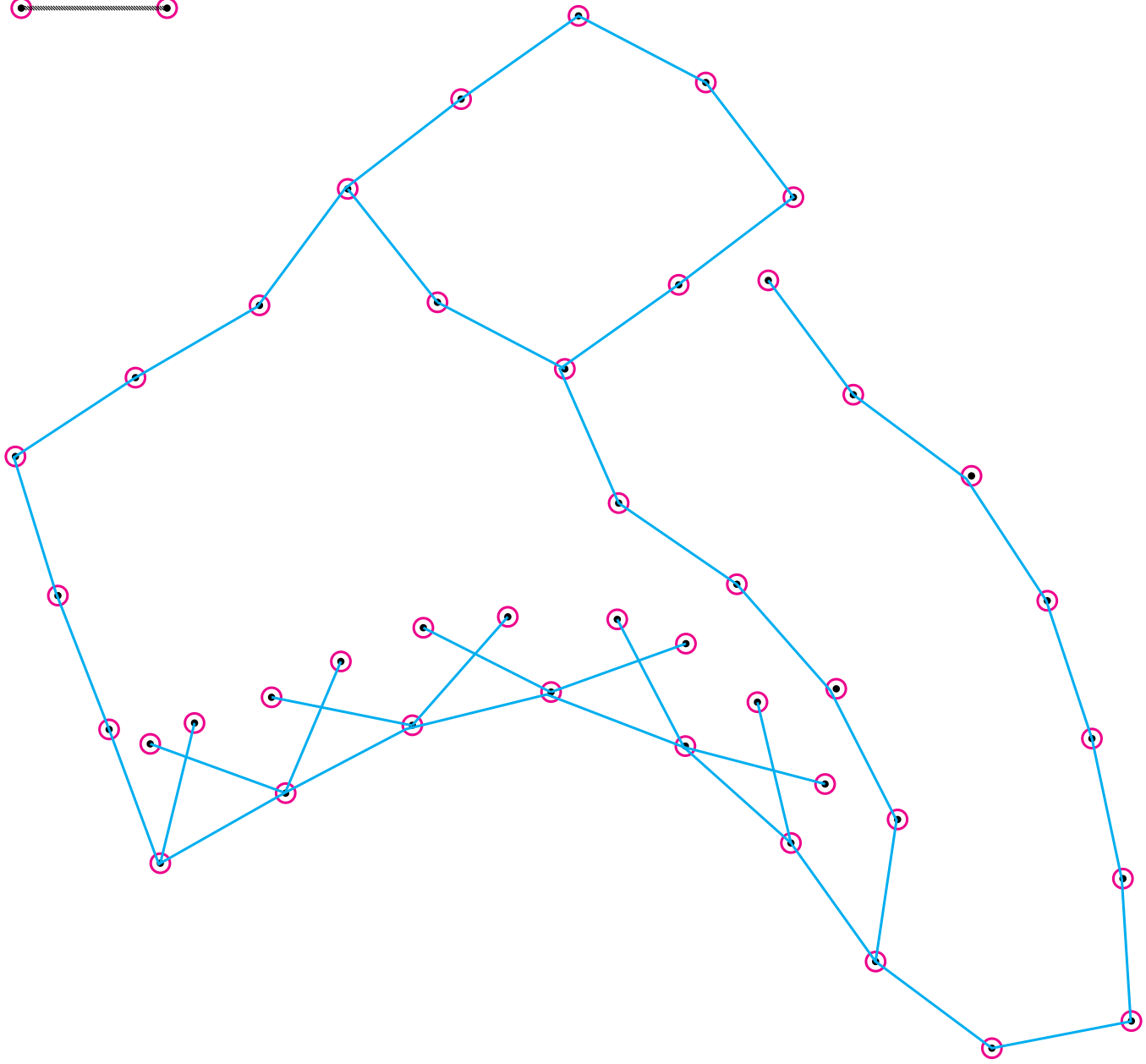


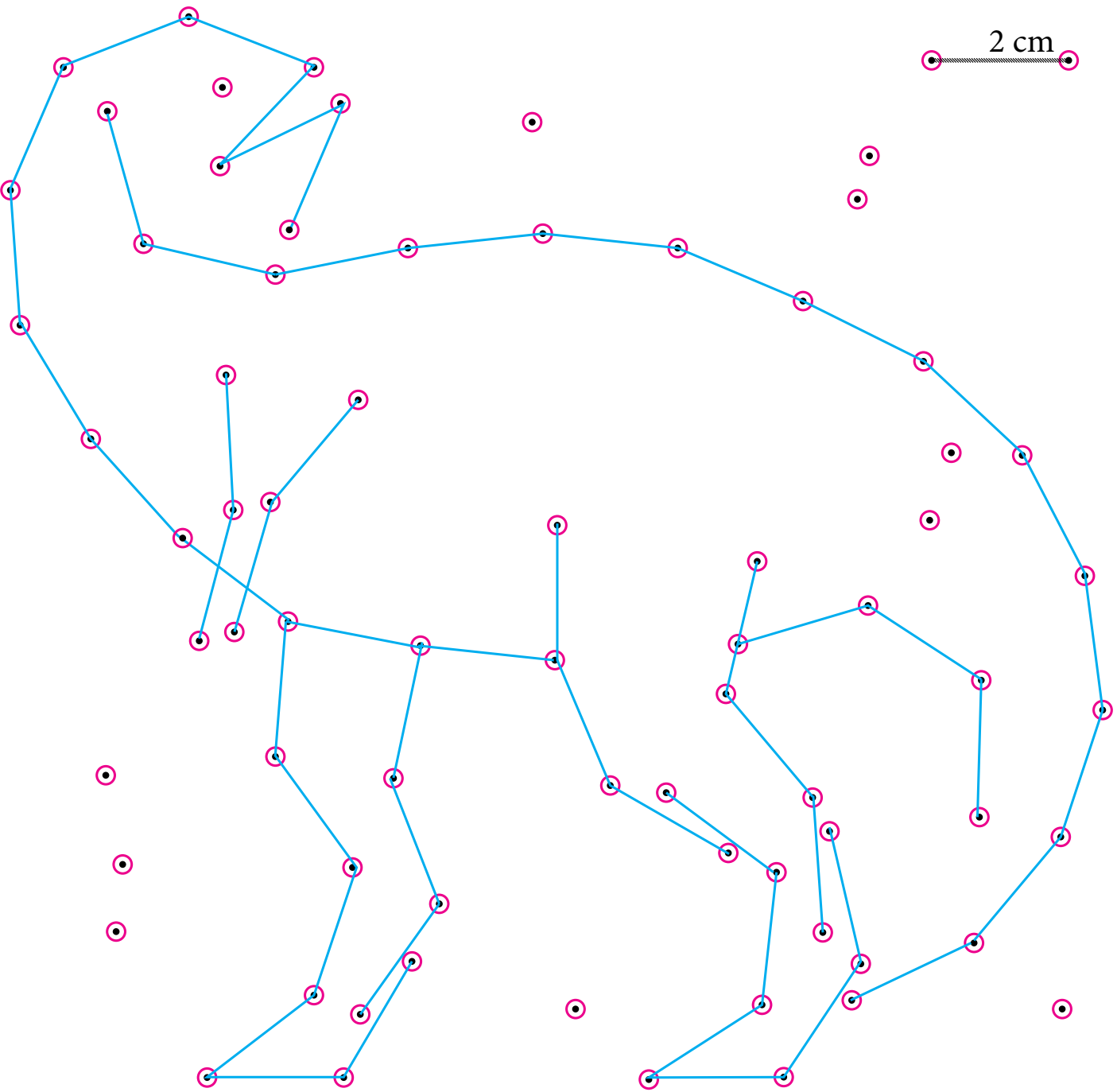
2 cm

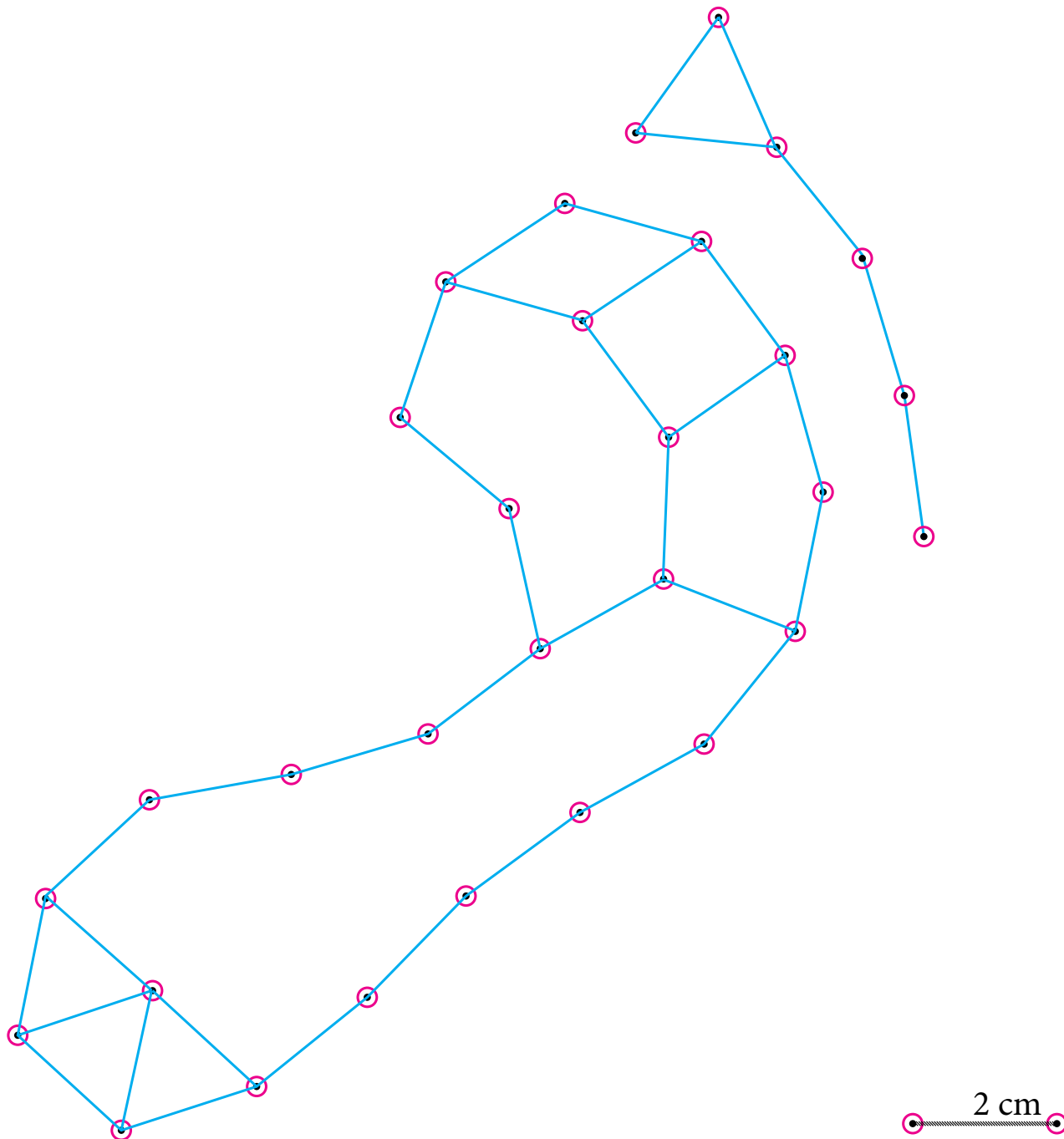


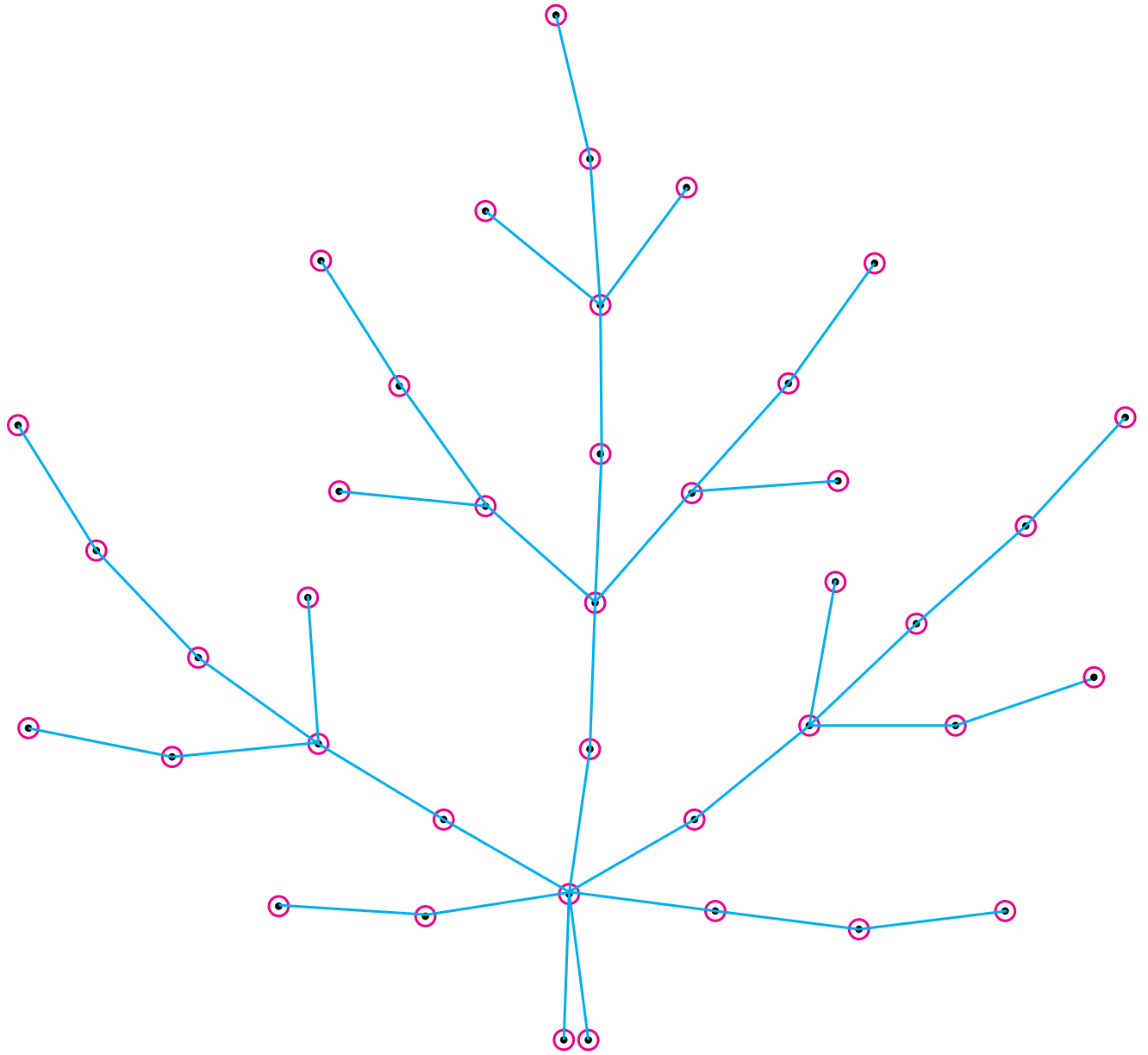


2 cm









2 cm

