

The image displays a 100x100 grid of dots, where each dot represents a non-zero element in a sparse matrix. The dots are arranged in a pattern that suggests a banded structure, with higher density of dots along the main diagonal and some off-diagonal elements, typical of a sparse matrix representation. The dots are arranged in a pattern that suggests a banded structure, with higher density of dots along the main diagonal and some off-diagonal elements, typical of a sparse matrix representation.

The diagram shows a 2D coordinate system with a horizontal x-axis and a vertical y-axis. The origin is at the center. The four quadrants are labeled as follows: Q1 (top-left), Q2 (top-right), Q3 (bottom-left), and Q4 (bottom-right). The x-axis is labeled 'x' at its right end, and the y-axis is labeled 'y' at its top end.

The figure consists of seven sub-diagrams, each showing a pattern of black dots on a grid. The patterns are labeled 1 through 7. Pattern 1 is a small cluster of 4 dots. Pattern 2 is a larger cluster of 10 dots. Pattern 3 is a more complex cluster of 16 dots. Pattern 4 is a cluster of 22 dots. Pattern 5 is a cluster of 28 dots. Pattern 6 is a cluster of 34 dots. Pattern 7 is a cluster of 40 dots. The patterns show a clear progression of growth and complexity.

The figure consists of 10 diagrams arranged in two rows of five. Each diagram shows a pattern of black dots on a grid. The pattern starts as a small cluster of dots in the top-left corner and grows into a larger, more complex shape. The diagrams are arranged in two rows of five.

























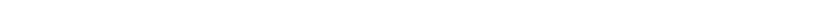












$\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$

[illegible]

The figure consists of eight sub-diagrams arranged horizontally, each showing a set of points in a 2D coordinate system. The points are colored red, green, blue, and black. The sequence of diagrams illustrates the evolution of a point cloud over time. In the first diagram, there are a few red and green points. As the sequence progresses, more points appear, change color, and move. Some points seem to 'die' (disappear) and others 'are born' (appear). The final diagram shows a more complex arrangement of points, including a cluster of black points.

A 3x10 grid of dots representing a sparse matrix. The dots are arranged in a pattern that suggests a banded structure with some off-diagonal elements.

A 3x3 grid of dots. The top row has 2 dots, the middle row has 3 dots, and the bottom row has 2 dots. This represents the number 7.

A 3x10 grid of dots representing a sparse matrix. The dots are arranged in a pattern that suggests a banded structure with some off-diagonal elements.

A 3x3 grid of dots. The top row has two dots, the middle row has two dots, and the bottom row has two dots. The dot in the top-right position is missing.