

The figure displays a 3x3 grid of 9 diagrams, each representing a 2x2 arrangement of four vertices. Each vertex is marked with an arrow indicating the direction of the lines connecting it to its neighbors. The diagrams are arranged in a 3x3 grid, with each diagram occupying one of the nine cells. The arrows on the vertices are oriented in various ways, creating different patterns of connections between the four vertices in each 2x2 sub-grid. For example, in the top-left diagram, the top-left vertex has an arrow pointing right, the top-right vertex has an arrow pointing left, the bottom-left vertex has an arrow pointing up, and the bottom-right vertex has an arrow pointing down. In the bottom-right diagram, the top-left vertex has an arrow pointing right, the top-right vertex has an arrow pointing left, the bottom-left vertex has an arrow pointing up, and the bottom-right vertex has an arrow pointing down.