

The figure displays a 3x3 grid of 9 diagrams, each representing a different configuration of a 2x2 arrangement of vertices. Each vertex is labeled with an arrow indicating a direction. The diagrams are arranged in a 3x3 grid, with each diagram occupying one cell. The arrows on the vertices are as follows:

- Top-left diagram:** Top-left (right), Top-right (left), Bottom-left (up), Bottom-right (down).
- Top-middle diagram:** Top-left (right), Top-right (right), Bottom-left (up), Bottom-right (down).
- Top-right diagram:** Top-left (left), Top-right (left), Bottom-left (up), Bottom-right (down).
- Middle-left diagram:** Top-left (right), Top-right (right), Bottom-left (up), Bottom-right (down).
- Middle-middle diagram:** Top-left (left), Top-right (left), Bottom-left (up), Bottom-right (down).
- Middle-right diagram:** Top-left (left), Top-right (right), Bottom-left (up), Bottom-right (down).
- Bottom-left diagram:** Top-left (right), Top-right (left), Bottom-left (up), Bottom-right (down).
- Bottom-middle diagram:** Top-left (left), Top-right (left), Bottom-left (up), Bottom-right (down).
- Bottom-right diagram:** Top-left (left), Top-right (right), Bottom-left (up), Bottom-right (down).