

A square arena with a black border contains four particles, each represented by a dark gray circle. Arrows indicate their movement paths: the top-left particle moves straight down; the top-right particle moves diagonally down and to the left; the bottom-left particle moves diagonally down and to the right; and the bottom-right particle moves diagonally up and to the left.

A diagram showing four particles, represented by dark gray circles, within a square boundary. Each particle has an arrow pointing away from it, indicating its direction of movement. The particles are located in the top-left, top-right, bottom-left, and bottom-right quadrants. The arrows point towards the bottom-left, bottom-left, bottom-right, and bottom-left respectively.