



The diagram shows a hexagonal lattice of green dots. A black rectangle is drawn over a portion of the lattice. The bottom-left corner of the rectangle is labeled  $(0,0)$  and the top-left corner is labeled  $(0, y_{2\max})$ . The bottom-right corner is labeled  $(0,1)$ . A horizontal double-headed arrow between the bottom corners is labeled  $a_1$ , and a vertical double-headed arrow between the right corners is labeled  $a_2$ . To the left of the rectangle, a vertical double-headed arrow is labeled  $r_2$ . At the bottom left, outside the rectangle, is a black dot labeled  $(s_1, s_2)$ . A horizontal double-headed arrow at the bottom is labeled  $r_1$ .

 $r_2$  $(0, y_{2\max})$  $(0,0)$  $a_1$  $(0,1)$  $a_2$  $(s_1, s_2)$  $r_1$