







A quantum circuit diagram for a  $\sqrt{\text{SWAP}}$  gate. It consists of a central square box with a thick black border. Inside the box, the text  $\sqrt{\text{SWAP}}$  is centered. Four horizontal lines extend from the left and right sides of the box, representing the input and output qubits. The top and bottom lines are slightly longer than the middle two lines.

$\sqrt{\text{SWAP}}$