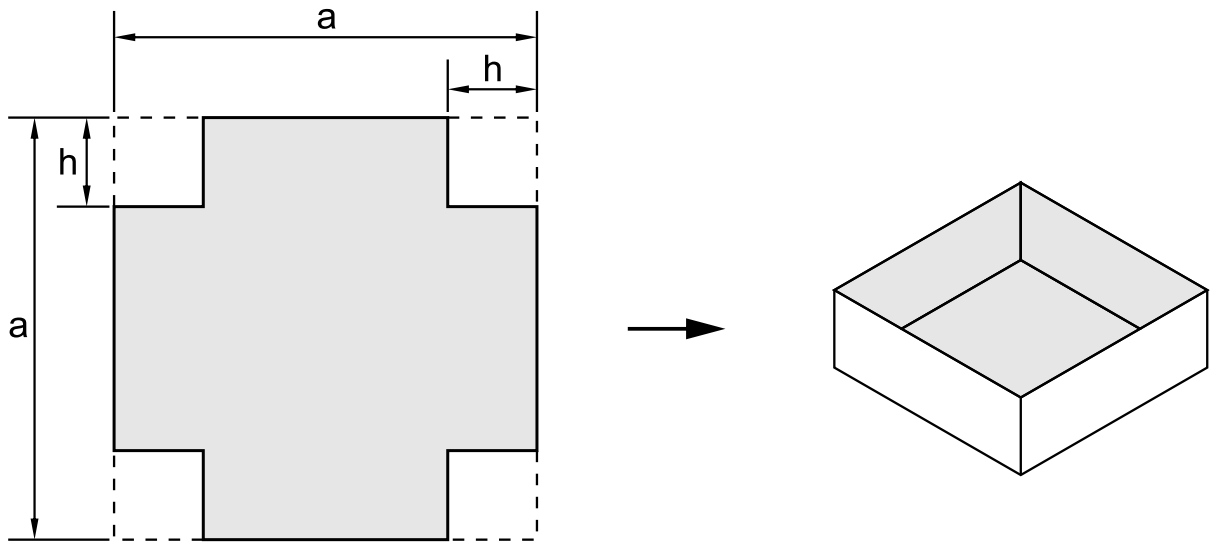


## Question



Four squares of side length  $h$  are cut from the corners of a square sheet of metal of side length  $a$ . The sheet is folded into a box with an open top.

- What value of  $h$  gives the maximum volume of the box,  $V$ ?
- What is the maximum volume  $V$ ? Draw the graph of how  $V$  depends upon  $h$ .