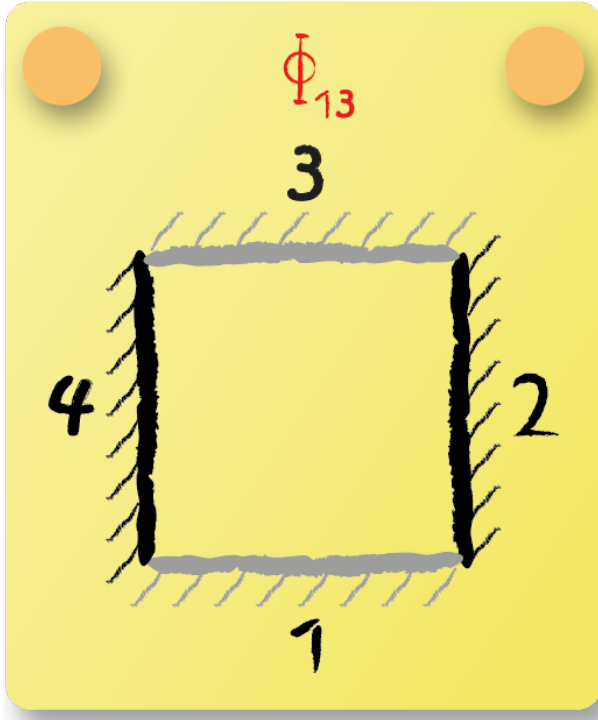


View Factor: Task 18



The image shows a square body.
What is ϕ_{13} ?

1



$$\phi_{13} = \sqrt{2} - 1$$

2



As we know diagonal line (the length that divided the square from edges is multiples of $\sqrt{2}$) and length 1 are equal, we can say that ϕ_{14} and $\phi_{1,2}$ are the same value (from symmetry $1 - 1/\sqrt{2}$). Enclosure rule can be implemented for $\phi_{1,1} + \phi_{1,2} + \phi_{1,3} + \phi_{1,4} = 1$.