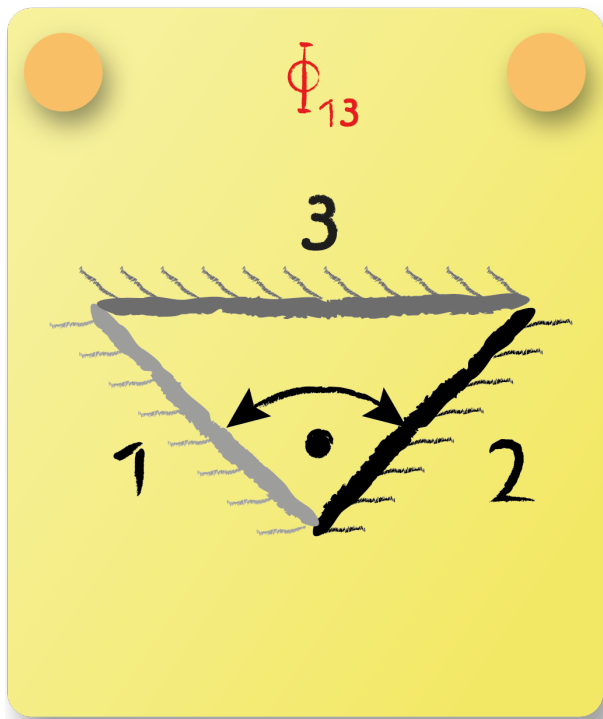# View Factor: Task 13

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

1

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

2

To find $\phi_{1,3}$, first of all $\phi_{3,1}$ can be found. Due to surface 1 and 2 are the same side length, radiation leaving surface 3 hits them equally from symmetry. So, $\phi_{3,1} = 1/2$. According to reciprocity rule $\phi_{1,3} = (A_3/A_1) \cdot (\phi_{3,1})$ equation is applied.