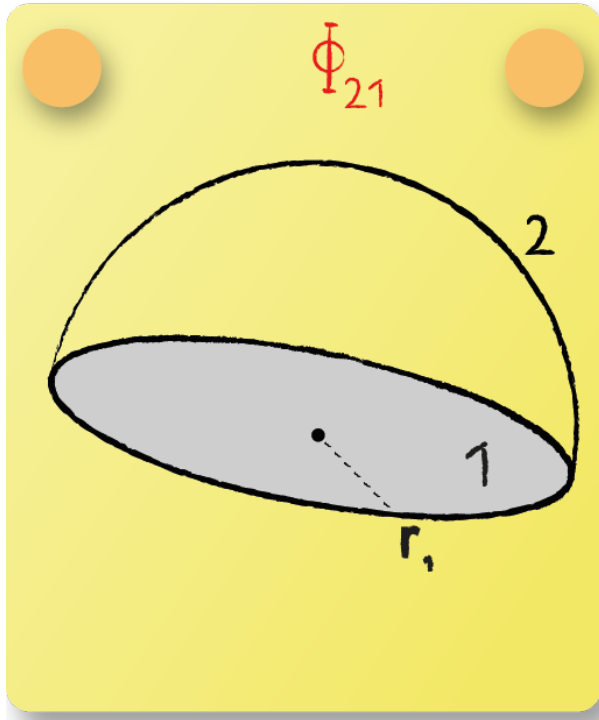# View Factor: Task 54

The image shows a hemisphere consisting of the surfaces 1 and 2.

1

$\phi_{21} = \frac{1}{2}$

2

Surface 1 only sees surface 2, therefore Φ_{12} equals 1. Taken into account the reciprocity rule, including surfaces $A_1 = \pi r^2$ and $A_2 = 2\pi r^2$, one obtains the view factor Φ_{21}.