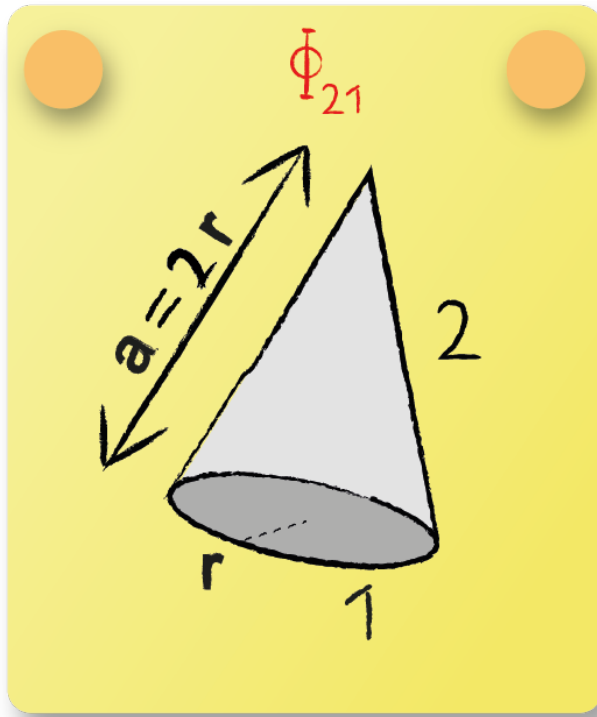# View Factor: Task 51

The image shows a cone, which side length a equals $2r$.

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 $A_2 = \pi r a$, one obtains the view factor Φ_{21}.