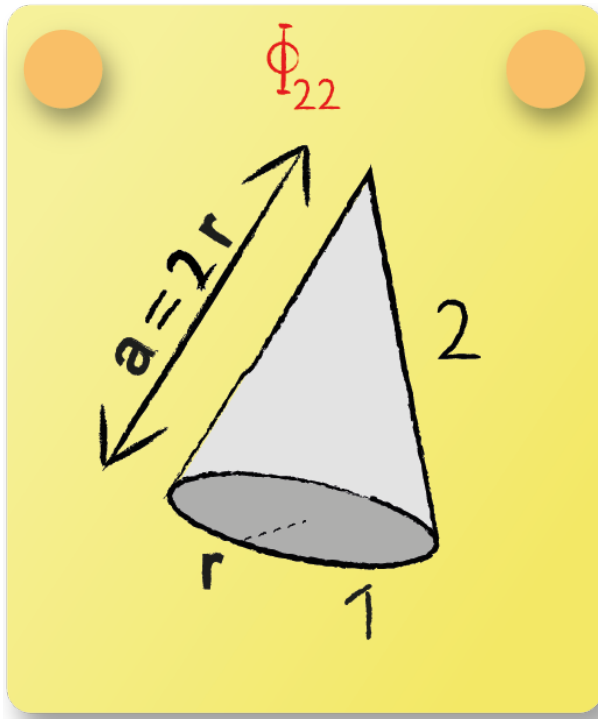


## View Factor: Task 53



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

1



$$\phi_{22} = \frac{1}{2}$$

2



Surface 1 only sees surface 2, therefore  $\Phi_{12}$  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  $\Phi_{21}$ . View factor  $\Phi_{22}$  follows from sum rule for  $\Phi_{21}$  and  $\Phi_{22}$ .