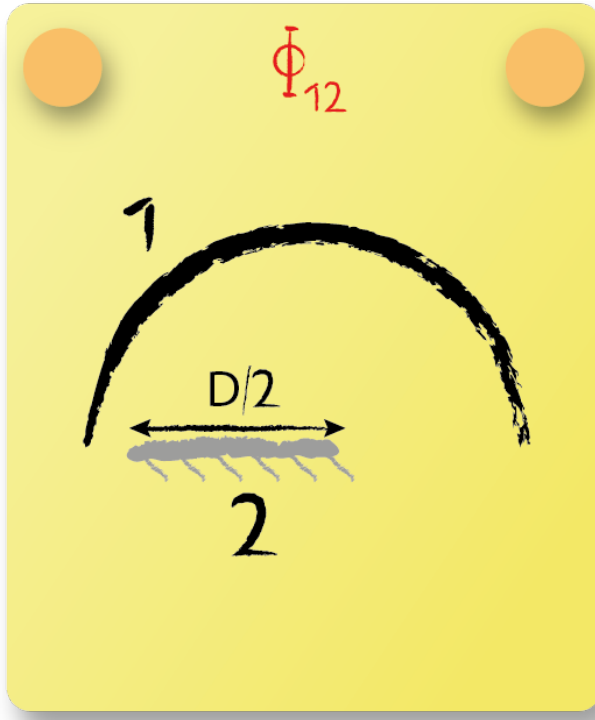# View Factor: Task 37

The image shows a semicircular body 1 and a straigth body 2. Body 2's length equals half the sphere's diameter.

1 — $\phi_{12} = \frac{1}{\pi}$

2 — Surface 2 only sees surface 1, therefore Φ_{21} equals 1. Taken into account the reciprocity rule, including surfaces $\frac{A_2}{A_1} = \frac{r_1}{\pi r_1}$, one obtains the view factor Φ_{12}.