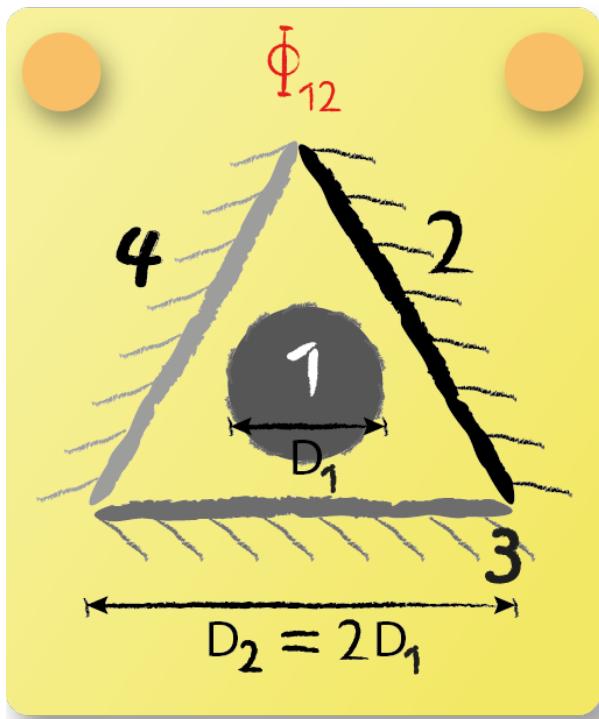


View Factor: Task 24



The image shows a triangular body and a sphere. Spherical body is completely inside of triangular body. Length of the equilateral triangle is two times of diameter of sphere. What is ϕ_{12} ?

1



$$\phi_{12} = 1/3$$

2



There are 3 possibilities for sphere 1 to see 3 surfaces of equilateral triangle therefore it hits them equally from symmetry.