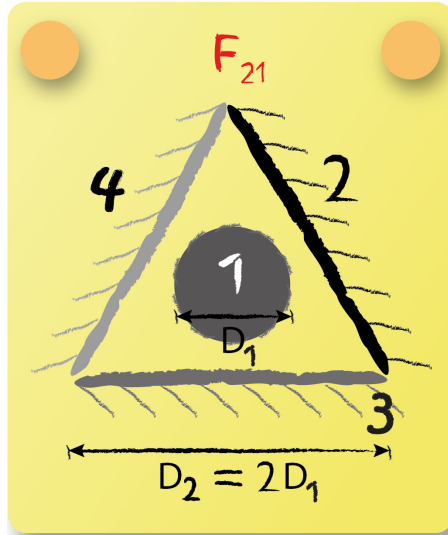# Lecture 05 - View Factor 16

Determine view factor F_{12}.

It can be seen:
$$F_{11} = 0$$

As we are dealing with an isosceles triangle and body 1 is located in the center, from symmetry it can be seen:
$$F_{12} = 1/3$$

Areas:
$$A_1 = \pi D_1 L$$
$$A_2 = 2 D_1 L$$

Reciprocity rule:
$$F_{21} A_2 = F_{12} A_1$$
$$\rightarrow F_{21} = F_{12} \frac{A_1}{A_2} = \frac{1}{3} \frac{\pi D_1 L}{2 D_1 L} = \frac{\pi}{6}$$