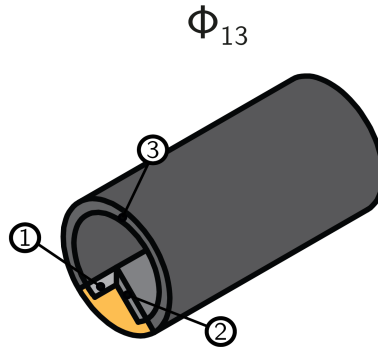


## View Factor 27

A long three-quarter circular body is connected to two flat plates perpendicular to each other. Determine the view factor  $\Phi_{13}$ :



A flat plate can never see itself and therefore:

$$\Phi_{11} = \Phi_{22} = 0$$

Surfaces 1 and 2 cannot see each other and therefore:

$$\Phi_{12} = \Phi_{21} = 0$$

Combining this with the summation rule ( $\Phi_{11} + \Phi_{12} + \Phi_{13} = 1$ ) one finds that:

$$\Phi_{13} = 1$$