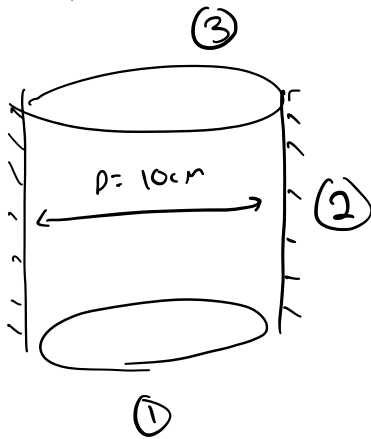


View factors



$$F_{12} = \frac{2L}{D} \left( \sqrt{1 + \left(\frac{L}{D}\right)^2} - \frac{L}{D} \right)$$

$$= F_{32} = 2(\sqrt{2} - 1) = 0.828$$

→ inspection:

$$F_{11} = F_{33} = 0$$

$F_{ij}$	$i=1$	$i=2$	$i=3$
$j=1$	0	0.207	0.172
$j=2$	0.828	0.586	0.828
$j=3$	0.172	0.207	0

$$\rightarrow F_{1,1} + F_{1,2} + F_{1,3} = 1$$

$$\rightarrow A_i \cdot F_{ij} = A_j \cdot F_{ji}$$

$$A_1 = A_3 = 78.54 \text{ cm}^2$$

$$A_2 = 314.2 \text{ cm}^2$$

$$A_1 \cdot F_{12} = A_2 \cdot F_{21}$$

$$\rightarrow F_{21} = \frac{A_1 F_{12}}{A_2}$$