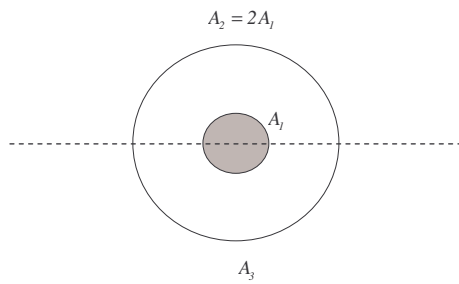


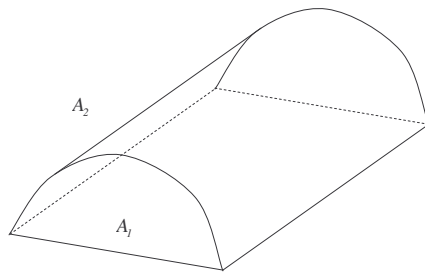
13.01

b



$$\begin{aligned}
 A_1 \text{ is convex} &\Rightarrow F_{11} = 0 \\
 \text{symmetry} &\Rightarrow F_{12} = F_{13} \\
 \text{summation rule} &\Rightarrow F_{12} + F_{13} = 1 \quad \Rightarrow \quad F_{12} = F_{13} = 0.5 \\
 \text{reciprocity rule} &\Rightarrow F_{21} = \frac{A_1}{A_2} F_{12} = \frac{A_1}{2A_1} 0.5 = 0.25
 \end{aligned}$$

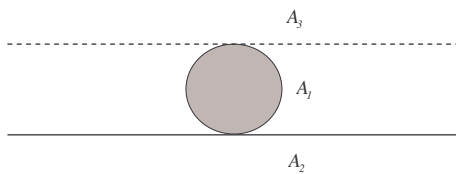
c



$$\begin{bmatrix} F_{11} & F_{12} \\ F_{21} & F_{22} \end{bmatrix}$$

$$\begin{aligned}
 A_1 \text{ is convex} &\Rightarrow F_{11} = 0 \\
 \text{summation rule} &\Rightarrow F_{12} = 1 \\
 \text{reciprocity rule} &\Rightarrow F_{21} = \frac{A_1}{A_2} F_{12} = \frac{2R \cdot L}{\pi R \cdot L} \cdot 1 = \frac{2}{\pi} \\
 \text{summation rule} &\Rightarrow F_{21} + F_{22} = 1 \quad \Rightarrow \quad F_{22} = 1 - \frac{2}{\pi}
 \end{aligned}$$

e



$$\begin{aligned}
 A_1 \text{ is convex} &\Rightarrow F_{11} = 0 \\
 \text{symmetry} &\Rightarrow F_{12} = F_{13} \\
 \text{summation rule} &\Rightarrow F_{12} + F_{13} = 1 \quad \Rightarrow \quad F_{12} = F_{13} = 0.5 \\
 \text{reciprocity rule} &\Rightarrow F_{21} = \frac{A_1}{A_2} F_{12} = 0 \cdot 0.5 = 0
 \end{aligned}$$