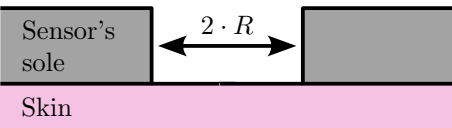
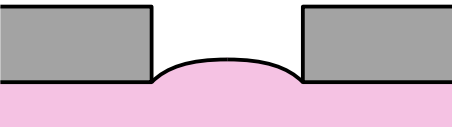


a) Ideal case: $S = \pi \cdot R^2$



b) $S = x \cdot \pi \cdot R^2, x \in [1, 2]$



c) Worst case: $S = 2 \cdot \pi \cdot R^2$

