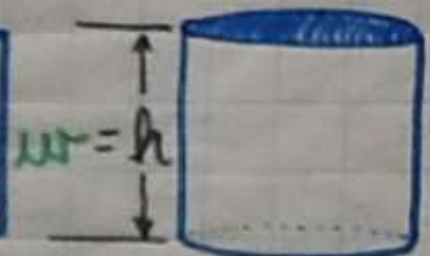


# Surface Area (Cylinders)

Top  
 $A = \pi r^2$

$$l = C = 2\pi r$$

Lateral  $A = l \cdot w = C \cdot h$   
 $= 2\pi r h$



Bottom  
 $A = \pi r^2$

Area of Top Circle

Area of Bottom Circle

Area of Lateral

$$SA = \pi r^2 + \pi r^2 + l \cdot w$$

$$SA = 2\pi r^2 + C \cdot h$$

$$SA = 2\pi r^2 + 2\pi r \cdot h$$

$$SA = 2\pi r^2 + 2\pi r h$$