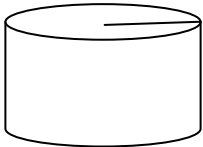


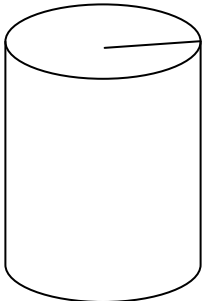
NAME \_\_\_\_\_ **CYLINDERS**

**Volume** – Area of Base X Height  
Area of Circle Base =  $\pi r^2$

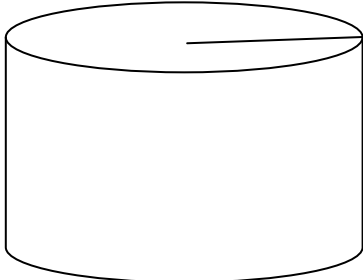
**Surface Area** = Area of **two** circle bases + area of rectangle  
(Area of rectangle = Circumference X Height)

Find the **Volume** AND **Surface Area** of the following cylinders:

1.   $r = 3 \text{ in}$   
 $H = 2 \text{ in}$

2.   $r = 5 \text{ ft}$   
 $H = x + 8$

SHOW THE FORMULA YOU ARE USING AND **ALL** YOUR WORK.

3.   $r = (x + 1) \text{ ft}$   
 $H = (x - 3)$