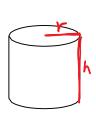
Date:\_\_\_\_\_

## 7.3 Notes: Volume of a Cylinder

The volume of a <u>cylinder</u> can be found using a modified version of the volume formula:



$$V = (\pi r^2) \times h$$
  
=  $(\pi \times r \times r) \times h$ 

## Find the volume of each cylinder:



$$V = (\pi r^{2}) \times h$$

$$= (\pi \times 5^{2}) \times 3$$

$$= (\pi \times 5 \times 5) \times 3$$

$$= (3.14 \times 5 \times 5) \times 3$$

$$= 78.5 \times 3$$

$$= 235.5 \text{ cm}^{3}$$

$$V = (\pi r^{2}) \times h$$

$$= \pi 4^{2} \times 9$$

$$= (3.14 \times 4 \times 4) \times 9$$

$$= 50.24 \times 9$$

$$= 452.16 \text{ cm}^{3}$$

