

# PVIVW

# Chapter 11

Victoria U  
Lauren S.  
Cata B.

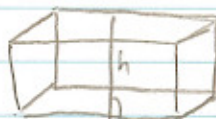
## Euler's Formula

$$F + V = E + 2$$

faces + vertices = edges + 2

°  $l$  = slant height  
°  $B$  = area of base

## PRISM



Lateral area = Perimeter of base x height  $LA = ph$

Surface area = Lateral area + 2base  $SA = LA + 2B$

Volume = Base x height  $V = Bh$

## CYLINDER

Lateral area =  $2\pi rh$  - OR -  $\pi dh$

Surface area =  $L \cdot A + 2B$  - OR -  $L \cdot A + 2\pi r^2$

Volume =  $\pi r^2 \cdot h$



## Pyramid

Lateral area =  $\frac{1}{2}pl$

Surface area =  $L \cdot A + B$

Volume =  $\frac{1}{3}Bh$  - OR -  $\frac{1}{3}\pi r^2 \cdot h$



## cone

Lateral area =  $\pi rl$

Surface area =  $L \cdot A + B$  - OR -  $L \cdot A + \pi r^2$

Volume =  $\frac{1}{3}\pi r^2 h$



° slant height  $\rightarrow$  regular height = Pythagorean theorem

oblique prism



## [extra]

