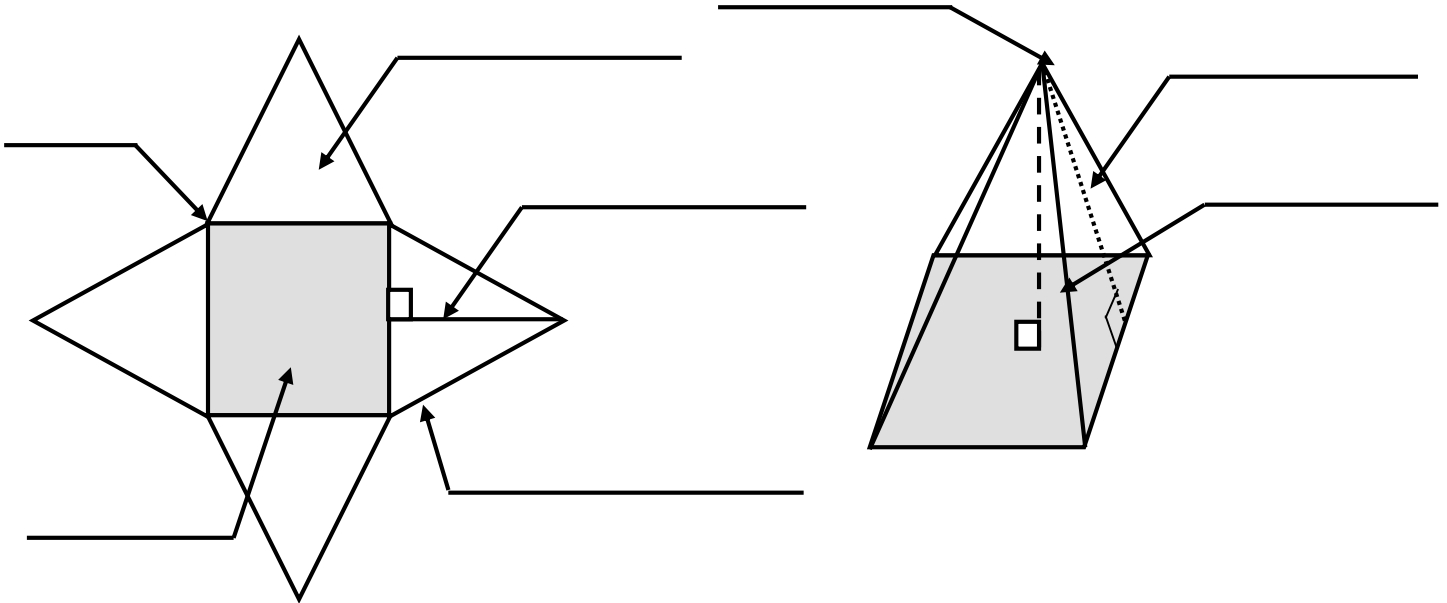
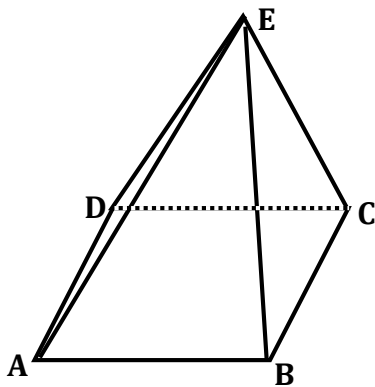


NOTES 12.3/12.5

LATERAL AREA, SURFACE AREA & VOLUME OF PYRAMIDS



EXAMPLE 1: Name each of the following.



Vertex: _____ Base: _____

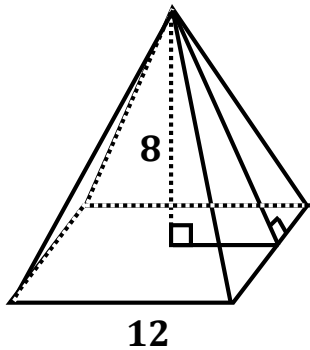
Lateral Faces: _____

Lateral Edges: _____

Base Edges: _____

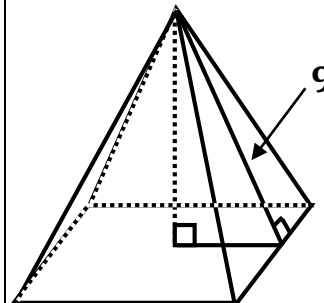
EXAMPLE 2: Find the indicated values.

a) Find the slant height.



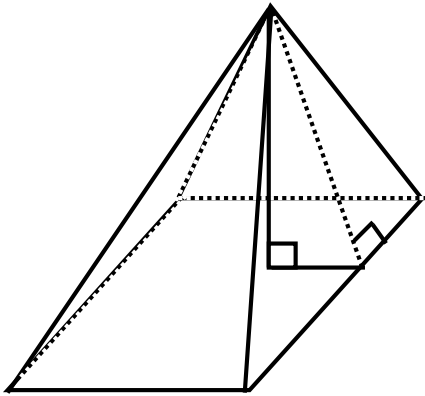
$l =$ _____

b) If the perimeter of the base is $16\sqrt{2}$ units, find the height.



$h =$ _____

EXAMPLE 3: A square pyramid has base edges of 10 and lateral edges of 13. Find its slant height.



$l =$ _____

FORMULAS:

$$LATERAL AREA = \frac{1}{2}Pl$$

$$SURFACE AREA = LA + B$$

$$VOLUME = \frac{1}{3}Bh$$

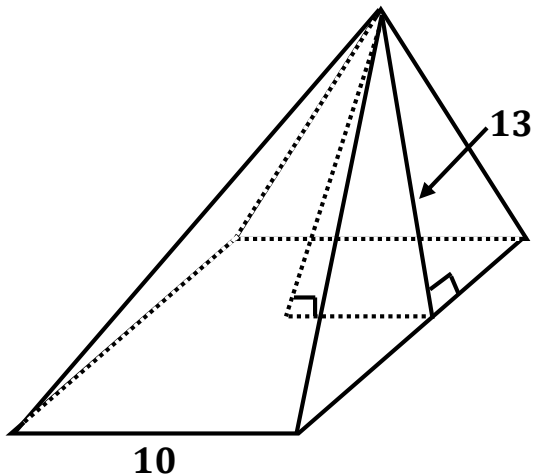
$P =$ perimeter of the base

$l =$ slant height

$B =$ area of the base

$h =$ height of the pyramid

EXAMPLE 4: Find the *Lateral Area*, *Surface Area*, and *Volume* of the square pyramid below.



LA = _____

SA = _____

V = _____