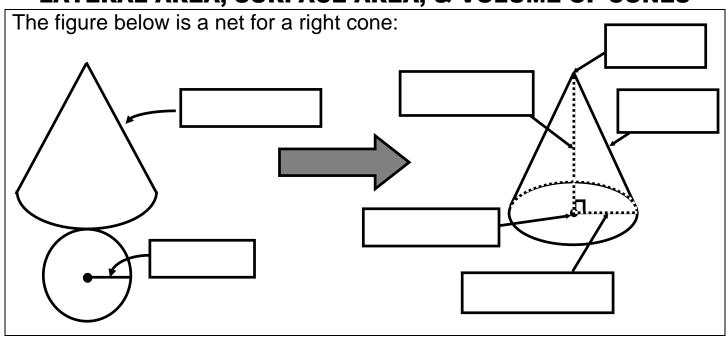
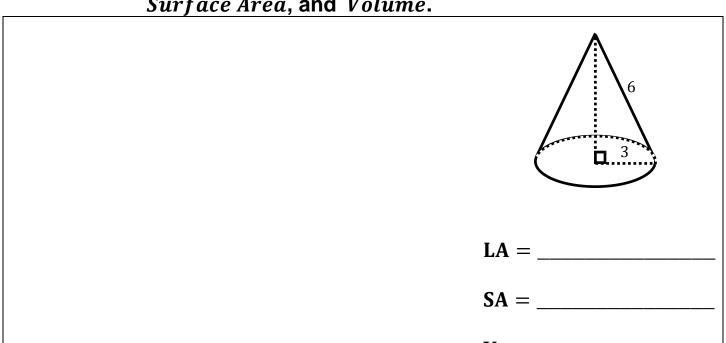
## NOTES 12.3/12.5 LATERAL AREA, SURFACE AREA, & VOLUME OF CONES



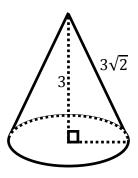
## **FORMULAS**

LATERAL AREA:	SURFACE AREA:	VOLUME:

**EXAMPLE 1:** For the cone below, find the EXACT *Lateral Area*, Surface Area, and Volume.



EXAMPLE 2: For the cone below, find the EXACT Lateral Area, Surface Area, and Volume.



 $LA = \underline{\hspace{1cm}}$ 

SA =

V =

EXAMPLE 3: If the *volume* of a cone is  $12\pi ft^3$  and the *radius* is 3 ft, find the EXACT height, slant height, Lateral Area, and Surface Area.

h =

*l* = \_\_\_\_\_

LA = \_\_\_\_\_

**SA** = \_\_\_\_\_