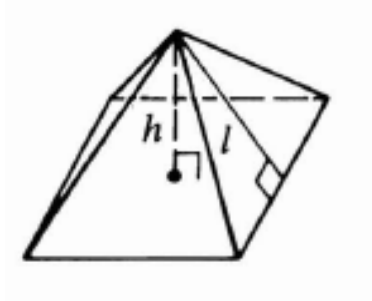


**SHOW WORK.** Give all answers in simplest form. No decimals unless requested.

1. Find the lateral area, total area, and volume of a regular square pyramid with base edge 16 and slant height 10.

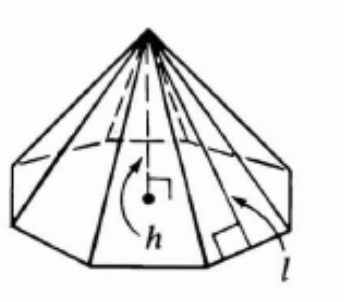


LA =

TA =

V =

2. Find the lateral area and total area of a regular hexagonal pyramid with base edge 10 and lateral edge 13.



LA =

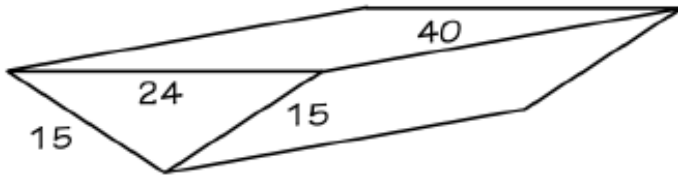
TA =

V =

3. A pyramid has base area  $16 \text{ cm}^2$  and a volume of  $32 \text{ cm}^3$ . Find its height.

4. A regular octagonal pyramid has base edge 3 and lateral area 60. Find the slant height.

5. Find the lateral area, total area, and volume for the prism.

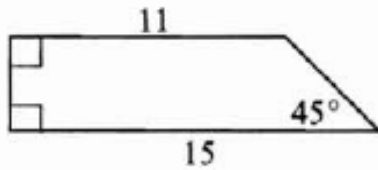


LA =

TA =

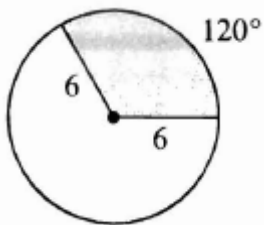
V =

6. Find the area.



7. The circumference of a circle is 30 feet. Find the diameter. Use  $\pi \approx 3.14$  and round the answer to the nearest tenth.

8. Find arc length and area for the shaded sector. Leave  $\pi$  in answers.

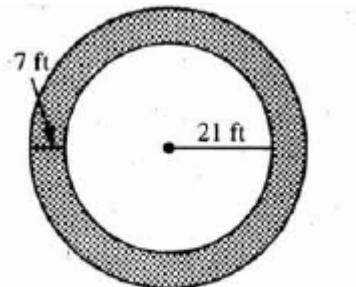


arc length =

sector area =

9. Find the area of the shaded region. Use

$$\pi \approx \frac{22}{7}$$



Ex. 18