

# Assignment

## Write

In your own words, explain how to determine the surface area of any square pyramid. Use an example to illustrate your explanation.

## Remember

The surface area of a pyramid is the sum of the areas of all of its faces. The lateral area of a pyramid is the total surface area of the pyramid excluding the base.

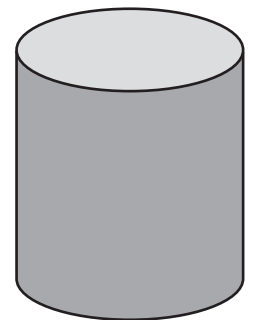
## Practice

Calculate the volume, surface area, and lateral area of each solid described.

- The base of a pyramid is an equilateral triangle with a side length of 12 inches. The height of the base is 10.4 inches. The height of the pyramid is 10 inches, and its slant height is 10.6 inches.
  - Volume:
  - Surface area:
  - Lateral area:
- A square pyramid has a base length of 1.5 meters, a height of 2.3 meters, and a slant height of 2.4 meters.
  - Volume:
  - Surface area:
  - Lateral area:

## Stretch

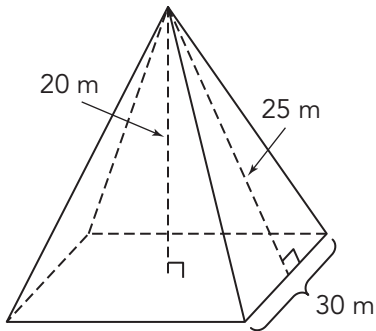
You have learned about the diameter, radius, and circumference of circles. How could you determine the surface area of a cylinder, like the one shown?



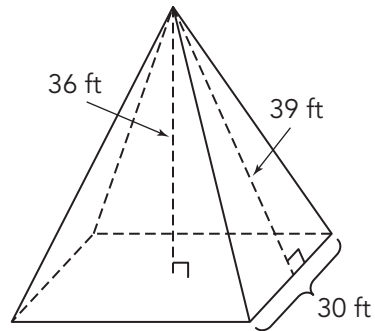
## Review

Calculate the volume of each pyramid.

1.



2.



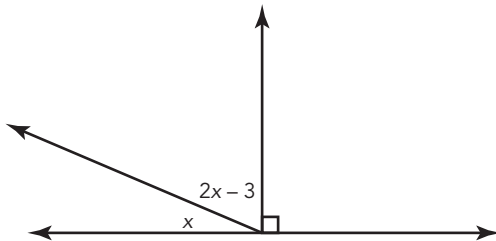
Draw each pair of special angles.

3. Draw a pair of supplementary angles. Explain why the angles are supplementary.

4. Draw a pair of complementary angles. Explain why the angles are complementary.

Write an equation and solve for the unknown angle measures in each figure.

5.



6.

