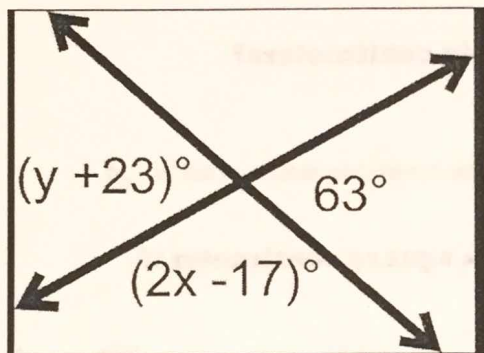


Unit 3 Study Guide

1. Select all the conditions for which it is possible to construct a triangle.

- A. A triangle with angle measures 75° , 90° , and 32°
- B. A triangle with side lengths 2.5 cm, 11.2 cm, and 7.6 cm
- C. A triangle with side lengths 5 cm, 5 cm, and 13 cm
- D. A triangle with angle measures 20° , 100° and 60°
- E. A triangle with side lengths 7 cm, 14 cm and 7 cm

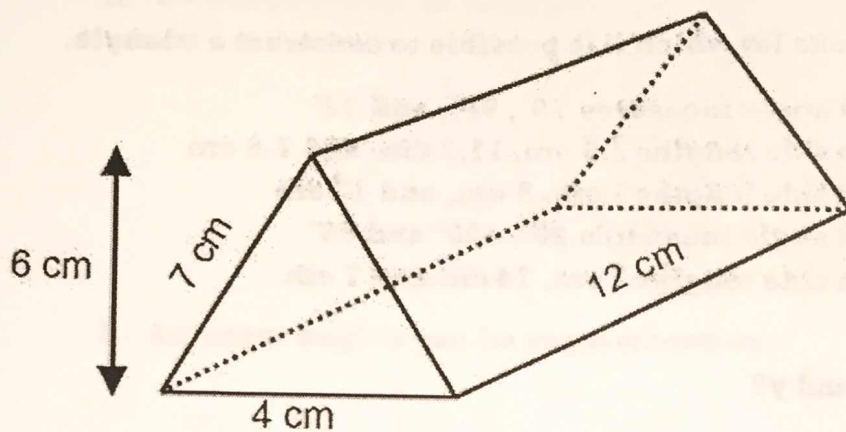
2. Find the values of x and y ?



$x =$ _____

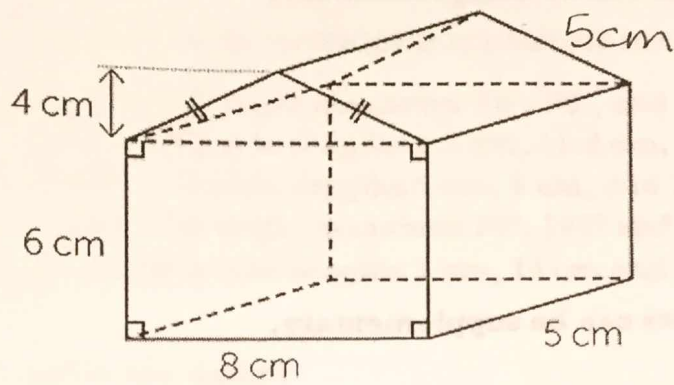
$y =$ _____

3. Here is a triangular prism.



1. What is the volume of the prism, in cubic centimeters?
2. What is the surface area of the prism, in square centimeters?

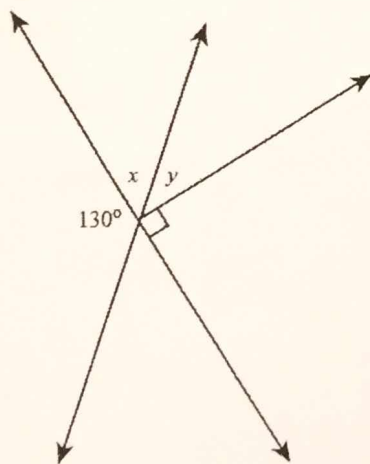
3. Here is a 3D-composite figure.



a. What is the volume of the figure?

b. What is the surface area of the figure?

4. What are the values of x and y ?



5. For each statement, provide an example showing that the statement can be true, or an explanation of why the statement can never be true.

A. Vertical angles can be complementary.

B. Adjacent angles can be supplementary.

C. A straight angle can be complementary.

