

Name: _____ Date: _____

Answer ALL the questions on this worksheet.

1. (a) Write down the formula for calculating the sum of the interior of a regular polygon.

(b) What is the sum of the interior angles of an eighteen sided polygon?

°

2. The interior angle of a regular polygon is 168° .

Calculate:

(a) The size of the exterior angle.

°

(b) The number of sides of this polygon.

 sides

3. A regular polygon has 24 sides.

Calculate:

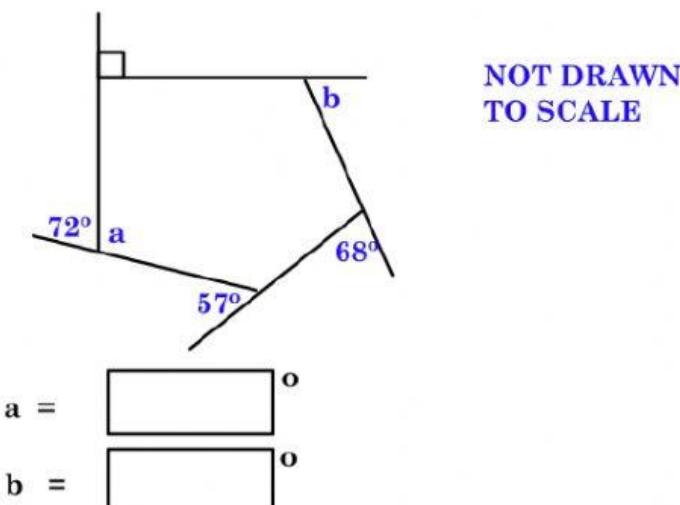
(a) The size of each exterior angle of this polygon.

°

(b) The size of each interior angle of this polygon.

°

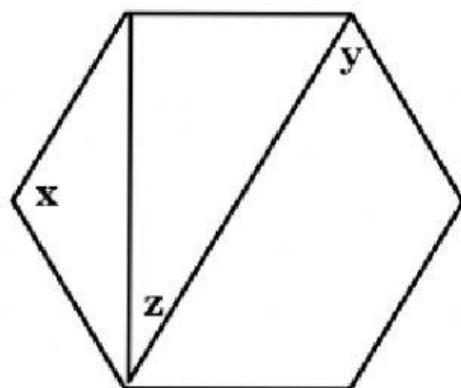
4. Write down the size of the angles marked with a letter.



$$a = \boxed{} \text{°}$$

$$b = \boxed{} \text{°}$$

5. The polygon below is a regular hexagon.



Calculate the size of the angle

(a) x $^{\circ}$

(b) y $^{\circ}$

(c) z $^{\circ}$