

10.2 Special Parallelograms  
Pre-AP Geometry

Name \_\_\_\_\_  
Period \_\_\_\_\_ Date \_\_\_\_\_

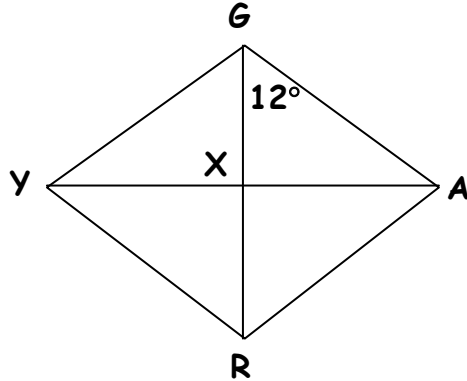
ELABORATE

1. GARY is a rhombus. Find each.

A)  $\angle YGA$

B)  $\angle RXY$

C)  $\angle RAY$

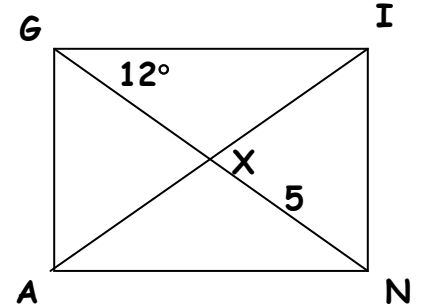


2. GINA is a rectangle. Find each.

A)  $\angle XA$

B)  $\angle GNI$

C)  $\angle NAI$



3. ABCD is a square.  $AB = x^2 - 3x + 62$ .  
 $BC = 2x + 12 + x^2$ . Find CD.

4. ABCD is a rectangle.  $AB = 2x + y$ .  $BC = x + 2$ .  
 $DC = x + 12$ .  $AD = y + 6$ . Find AB.

5. FGHK is a rhombus with diagonals meeting at D.  
If  $m\angle FKD = (7x + 10)^\circ$ ,  $m\angle HKD = (4x + 31)^\circ$ ,  
and  $\angle FDG = (17y - 12)^\circ$ , find the value of x and y.