

# MATH



## Module 5: Interior Angles of Triangle

Answer each of the questions below using your understanding of the interior angles of a triangle.

1. The angles of a triangle are equal to  $5x + 10$ ,  $8x - 20$  and  $3x + 30$ . Find the value of  $x$ .

2. The acute angles of a right triangle measure  $(48 - x)$  and  $(3x - 10)$ . What is the value of  $x$ ?

3. Triangle ABC is a right scalene triangle. If  $\angle B = 72^\circ$ , what is the measure of  $\angle A$ ?

4. An obtuse isosceles triangle contains an angle that measures  $162^\circ$ . What is the measure of another interior angle within this triangle?

5. The angles of a triangle are equal to  $5x$ ,  $2x + 8$ , and  $3x + 12$ . What is the measure of the smallest angle of the triangle?

6. The angles of a triangle are equal to  $x$ ,  $x + 4$  and  $20x$ . What is the measure of the largest angle of the triangle?