

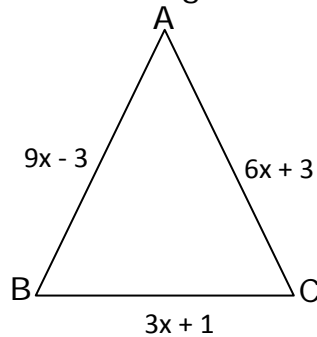
Name _____

Date _____

Proving Triangle Theorems - Independent Practice Worksheet

Complete all the problems.

1. If ABC is an isosceles triangle, find x.



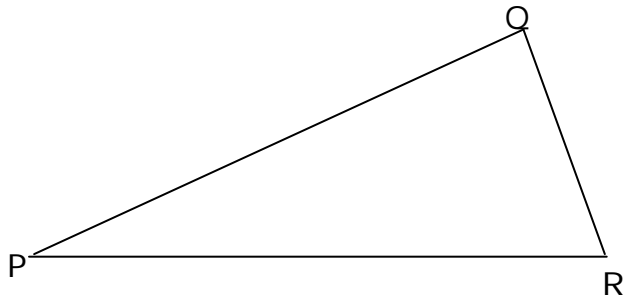
2. Proof: Triangle Sum Theorem

Given:

$$\angle R = 25^\circ$$

$$\angle Q = 110^\circ$$

Find the measure of $\angle P$



3. Proof: Triangle Sum Theorem

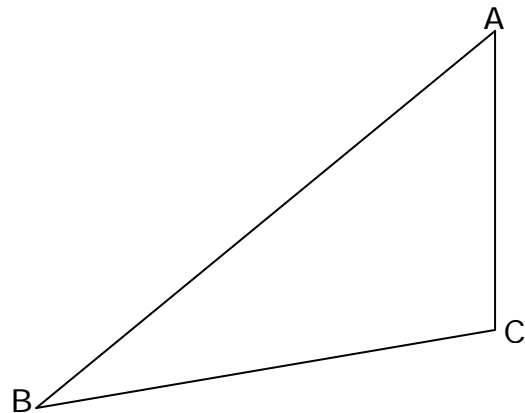
Given:

$$\angle A = x^\circ$$

$$\angle B = 2x^\circ$$

$$\angle C = \left(\frac{4}{4}\right)x^\circ$$

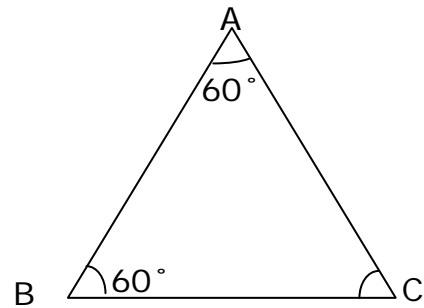
Find the measure of $\angle B$?



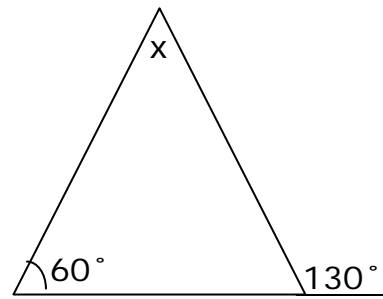
Name _____

Date _____

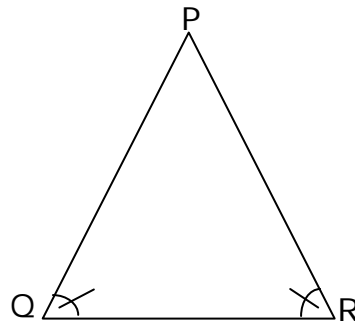
4. Two of the three angles of the triangle ABC are 60° and 60° . Calculate the measure of the third angle.



5. The exterior angle of the triangle is equal to 130° . Calculate the value of X.



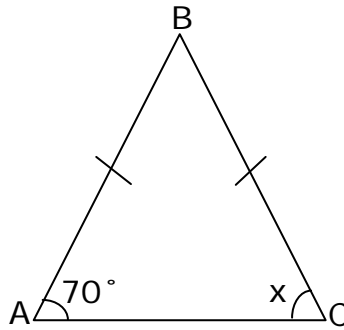
6. If $PQ=5$ and $\angle Q = \angle R$ then find out length of PR angle?



Name _____

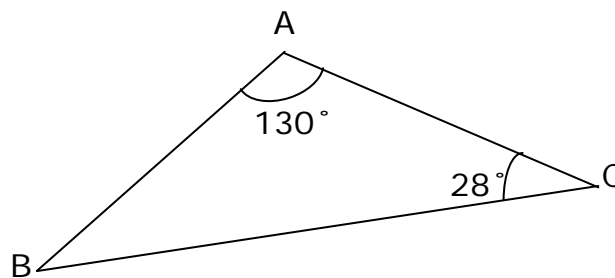
Date _____

7. The triangle ABC is isosceles triangle .So calculate the value of x in the diagram.

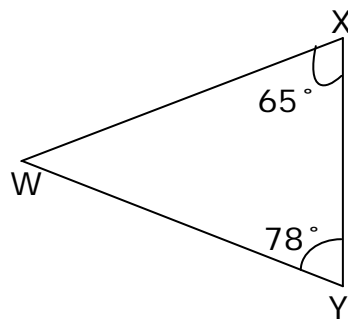


8. Prove: Triangle Sum Theorem

Find the measure of $\angle B$.



9. Find the value of W in the diagram below.



10. Find $\angle F$

