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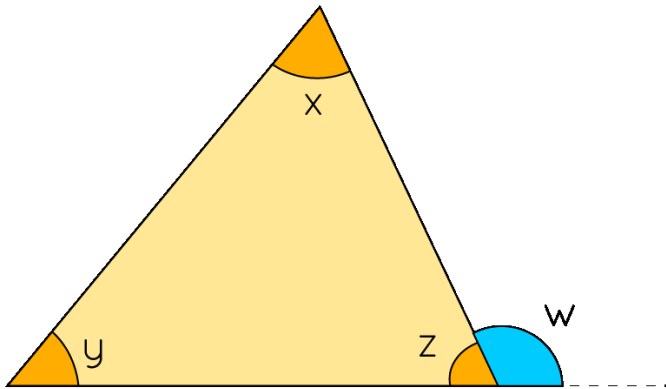
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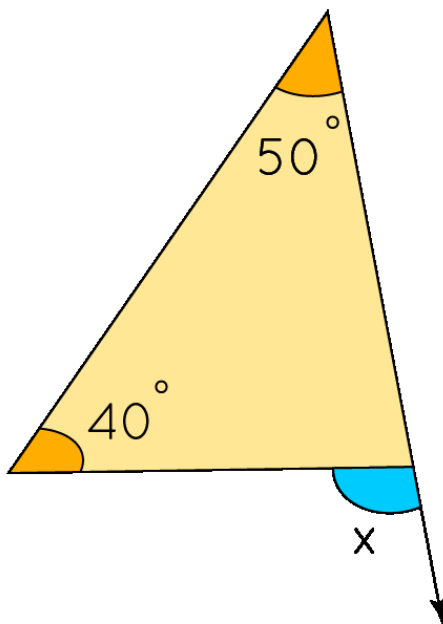
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Exterior Angle Theorem Worksheets

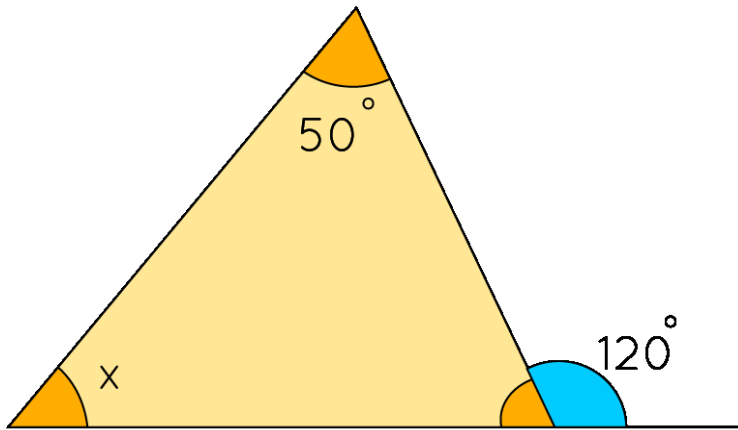
- 1) State exterior angle theorem of a triangle.
- 2) Prove $x + y = w$ (exterior angle theorem) using the following triangle.



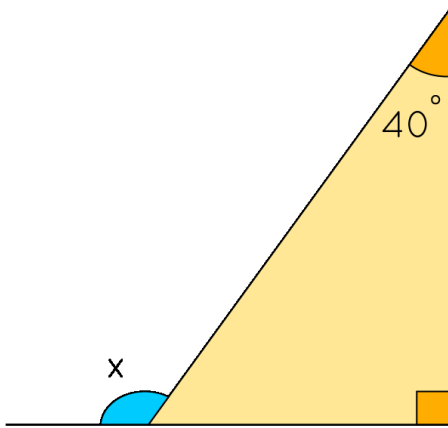
- 3) Find x using the following triangle.



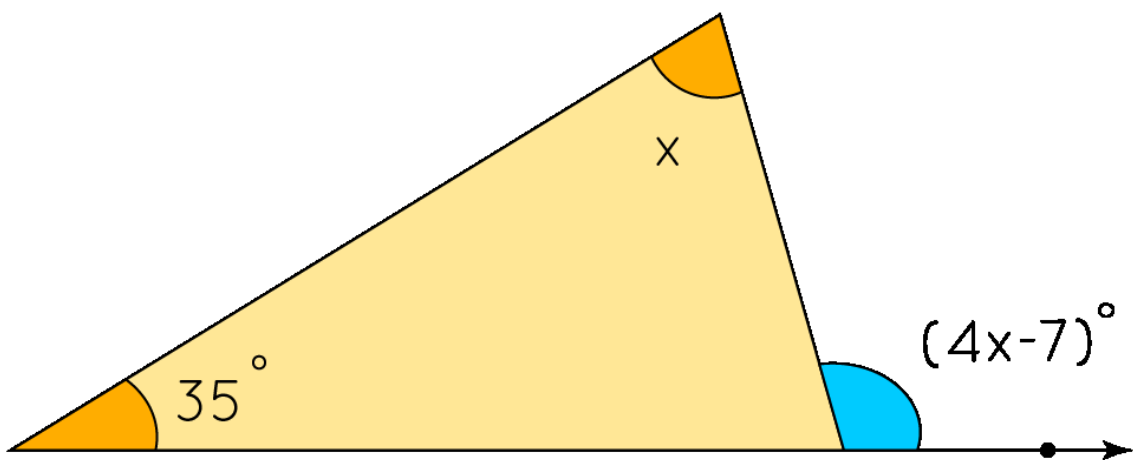
- 4) Find p using the following triangle.



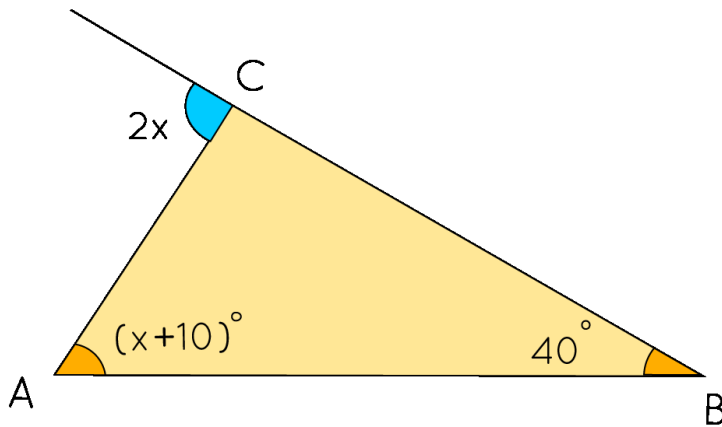
5) Find x in the following triangle.



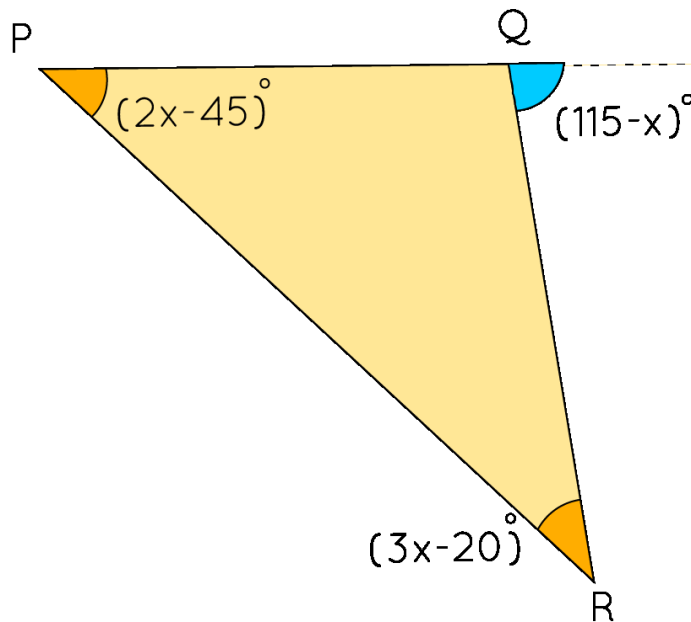
6) Find x using the following triangle.



7) Find the interior angle at C.



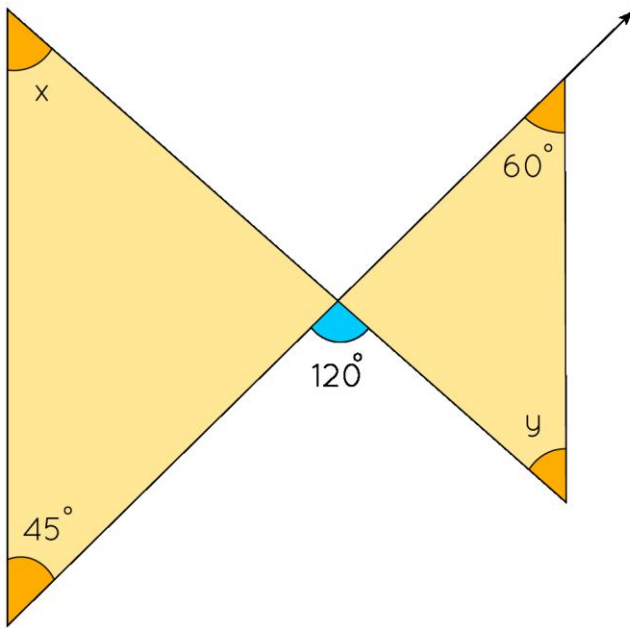
8) Find the exterior angle at P.



9) Identify the following statements to be True/False.

- An interior angle and the corresponding exterior angle of a triangle are supplementary.
- An interior angle and the corresponding exterior angle of a triangle are complementary.
- The sum of two interior angles of a triangle is always equal to 90 degrees.
- The sum of two interior angles of a triangle is always equal to the third exterior angle.

10) Find x and y using the following figure.



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**ANSWERS**

1)	An exterior angle of a triangle is equal to the sum of the other two interior angles.
2)	Step 1: $x + y = 180 - z$ (Angle sum property of a triangle) Step 2: $w = 180 - z$ (linear pair)
3)	90°
4)	70°
5)	130°
6)	14
7)	100°
8)	165°
9)	a) True b) False c) False d) True
10)	$x = 75; y = 55$

FUN FACT

1. An interior angle and its corresponding exterior angle of a triangle always add up to 180 degrees.
2. The sum of two interior angles of a triangle is equal to the third exterior angle.
3. The theorems that are used to find the unknown angles of a triangle are angle sum theorem and exterior angle theorem.

