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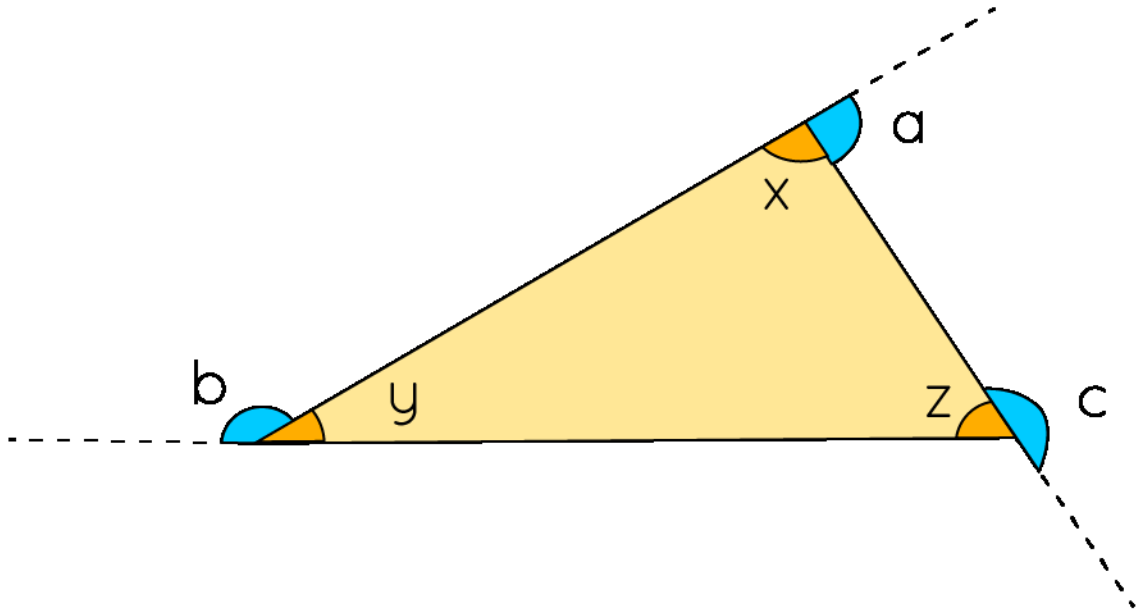
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## Exterior Angle Theorem Worksheets

1) Identify the exterior angles in the following figure:

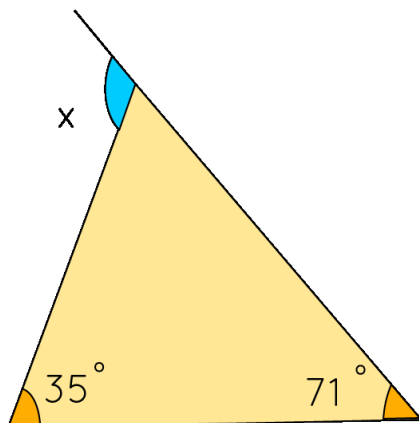


2) Fill in the blanks with respect to the triangle in Question 1.

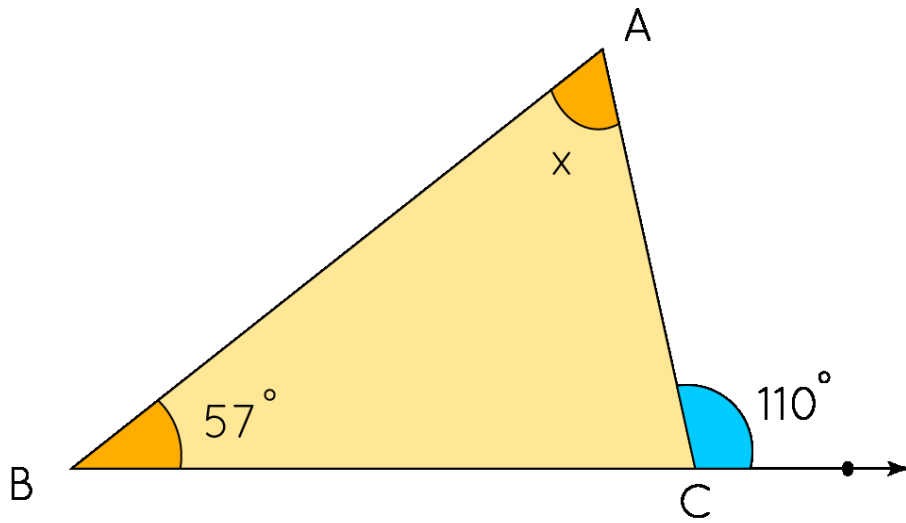
- a)  $x + y = \underline{\hspace{2cm}}$
- b)  $y + z = \underline{\hspace{2cm}}$
- c)  $z + x = \underline{\hspace{2cm}}$

3) An exterior angle and the corresponding interior angle of a triangle are always \_\_\_\_\_ as they always form a \_\_\_\_\_.

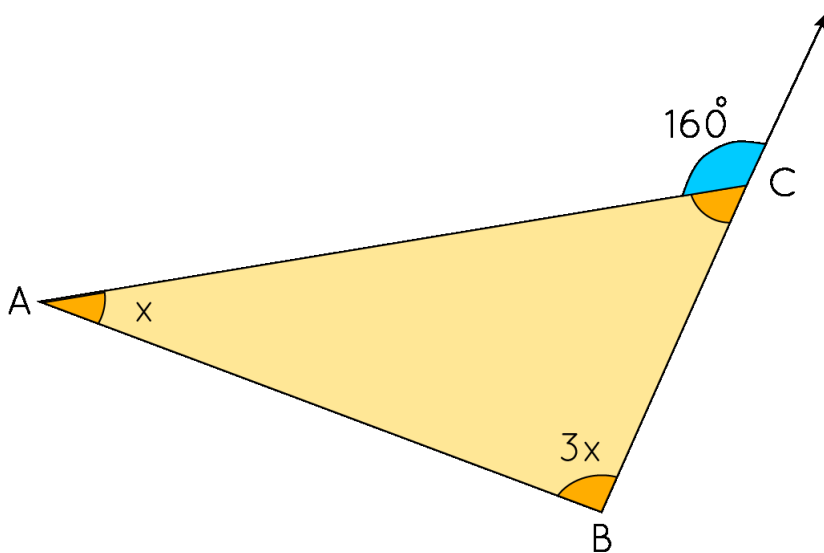
4) Find  $x$  using the following triangle.



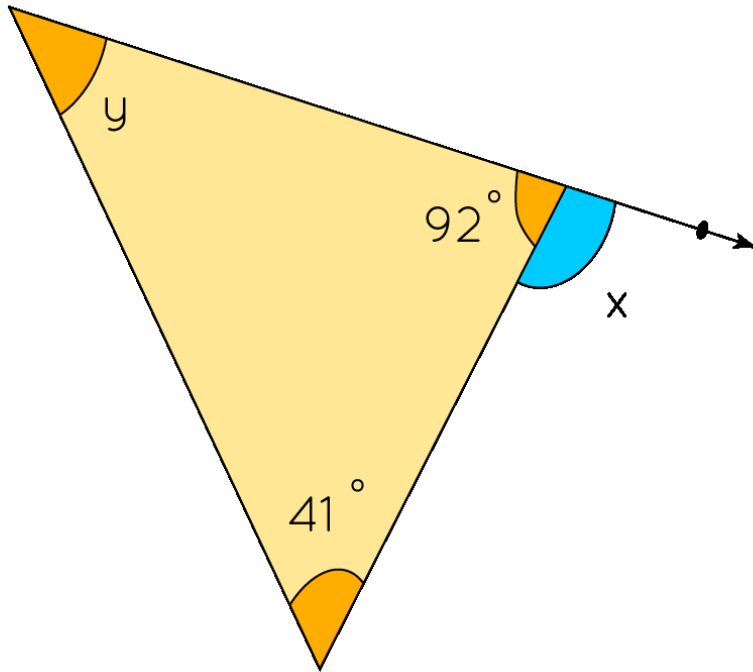
5) Find  $x$  using the following triangle.



6) Find the angle at B.

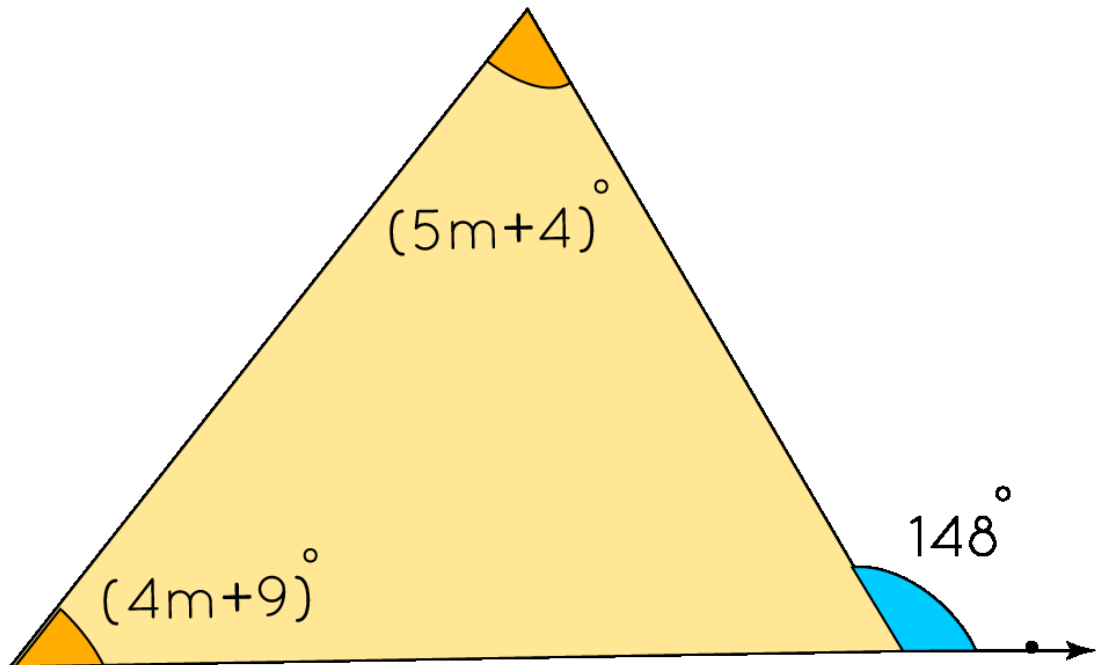


7) With respect to the figure below, answer the following questions.

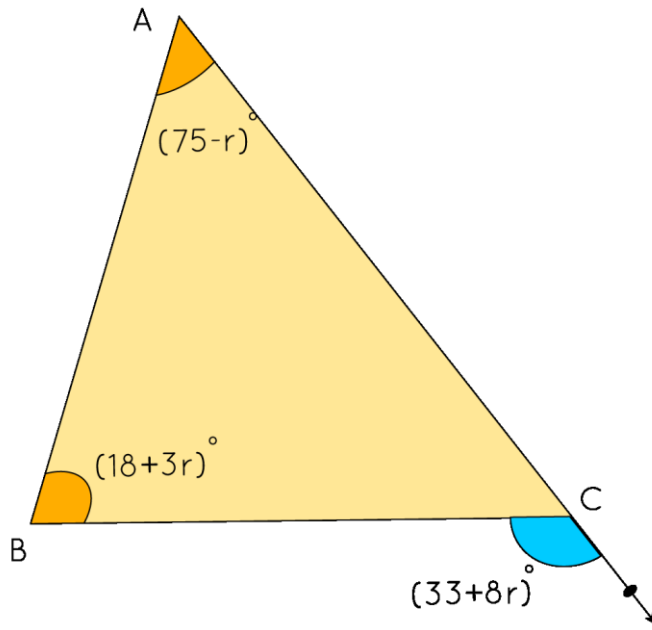


- a)  $y = \underline{\hspace{2cm}}$  (Using the angle sum property)  
b)  $x = \underline{\hspace{2cm}}$  (Using the exterior angle theorem)

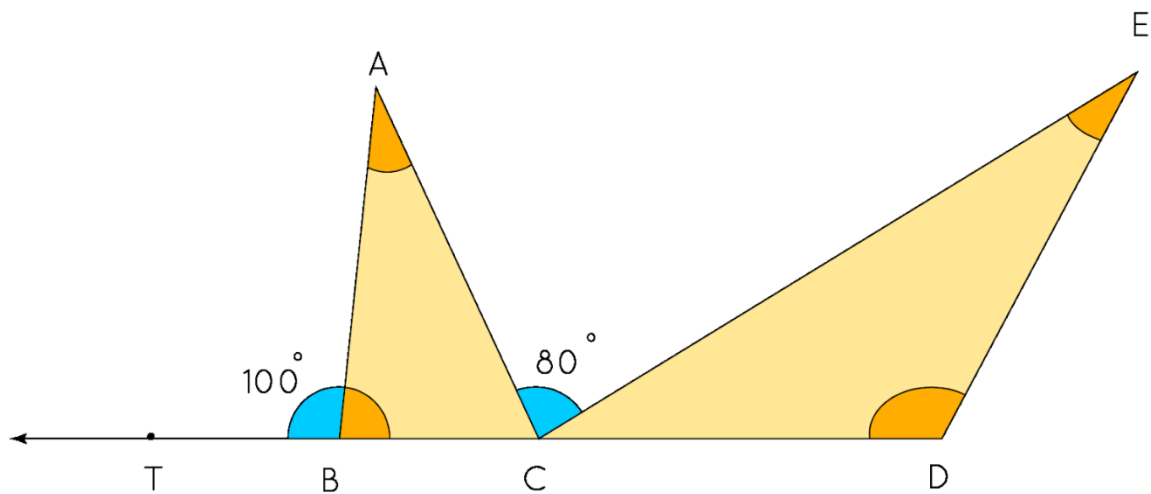
8) Find  $m$ .



9) Find the exterior angle at A.



10) Find the angles with respect to the following figure.



$\angle BCA = \underline{\hspace{1cm}}$  degrees.

$\angle DCE = \underline{\hspace{1cm}}$  degrees.

$\angle EDC = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$  degrees.

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**ANSWERS**

1)	a, b, and c
2)	a) c b) a c) b
3)	Supplementary; linear pair
4)	$106^\circ$
5)	$53^\circ$
6)	$120^\circ$
7)	a) $47^\circ$ b) $88^\circ$
8)	15
9)	$115^\circ$
10)	70; 30, 120

## FUN FACT

1. Interior angles of a triangle are the angles inside the triangle at vertices.
2. Exterior angle of a triangle is an angle at a vertex, and it lies between a side and the extended side of its adjacent side.
3. Thus, interior angle and the corresponding exterior angle at any vertex of a triangle are supplementary (i.e., they add up to 180 degrees).
4. The sum of all three exterior angles of a triangle is 360 degrees.

