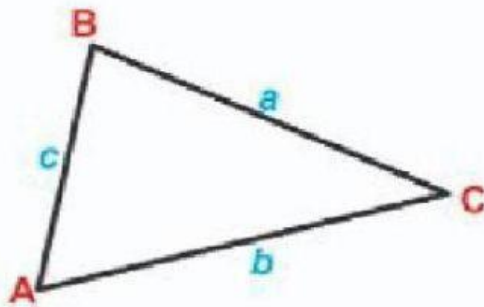


|                                                                                   |                          |                    |                       |
|-----------------------------------------------------------------------------------|--------------------------|--------------------|-----------------------|
|  | <b>COLEGIO SALEM</b>     | <b>ASIGNATURA:</b> | <b>Matemáticas</b>    |
|                                                                                   |                          | <b>GRADO:</b>      | <b>10°</b>            |
| <b>DOCENTE :</b>                                                                  | <b>Shirly Villanueva</b> | <b>PERÍODO:</b>    | <b>III</b>            |
|                                                                                   |                          | <b>TEMA:</b>       | <b>Ley de Cosenos</b> |

**OBJETIVO:** Comprender la fórmula aplicada en el teorema o ley del coseno.

## LEY DE LOS COSENOS



Ángulos:

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos B = \frac{a^2 + c^2 - b^2}{2ac}$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

Lados:

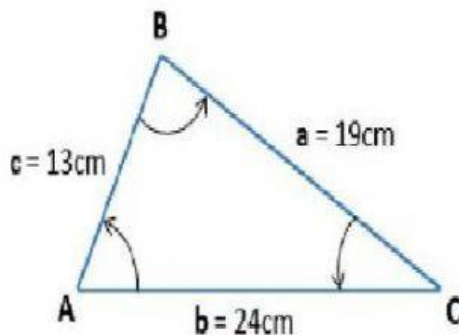
$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

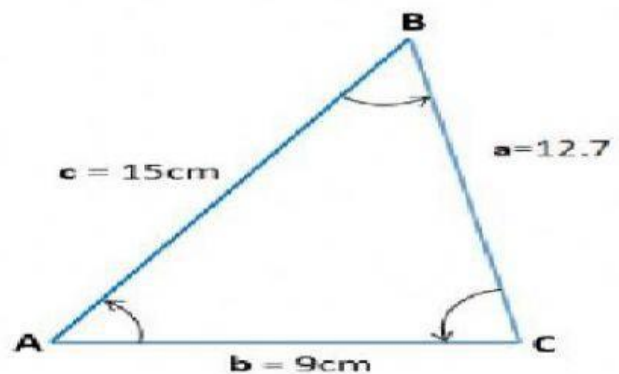
$$c^2 = a^2 + b^2 - 2ab \cos C$$

Observa y analiza las siguientes figuras, y encuentra el dato desconocido:

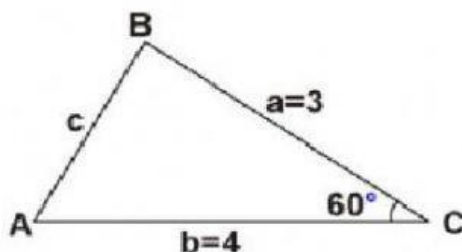
Triangulo 1



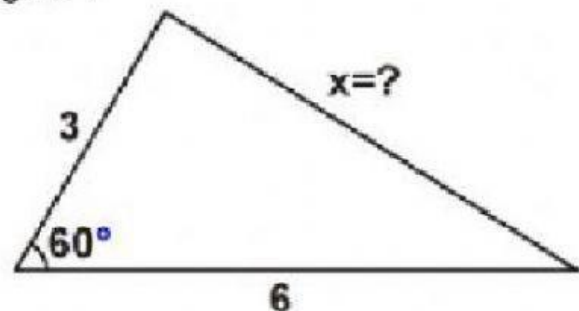
Triangulo 2



Triangulo 3

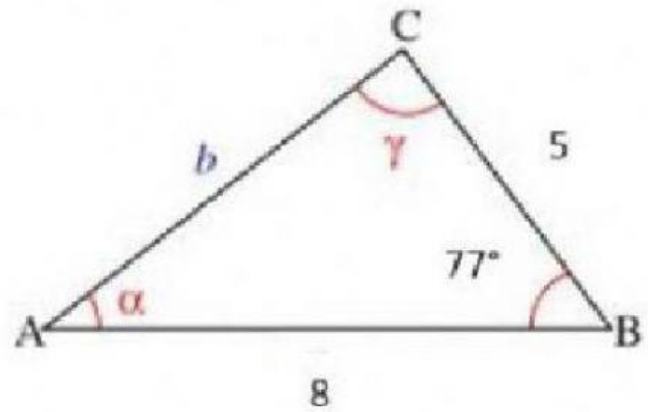
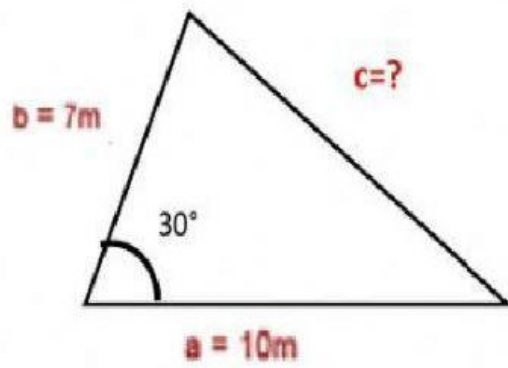


Triangulo 4



Triangulo 6

Triangulo 5



Triangulo 7

