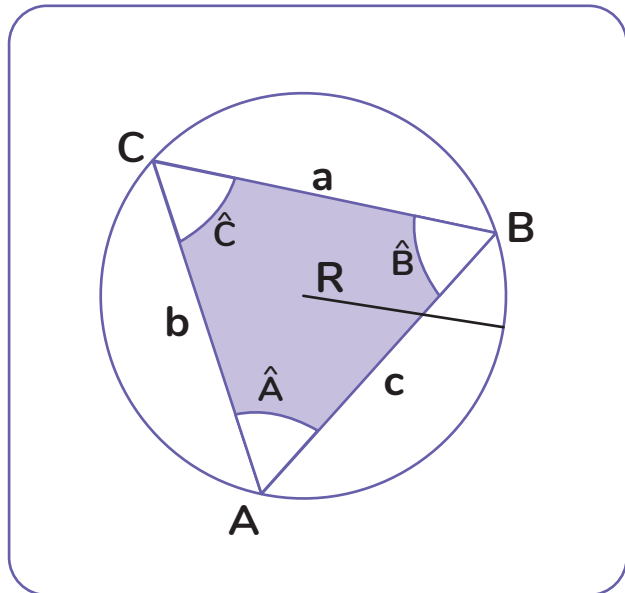


MAPA MENTAL

TRIÂNGULOS

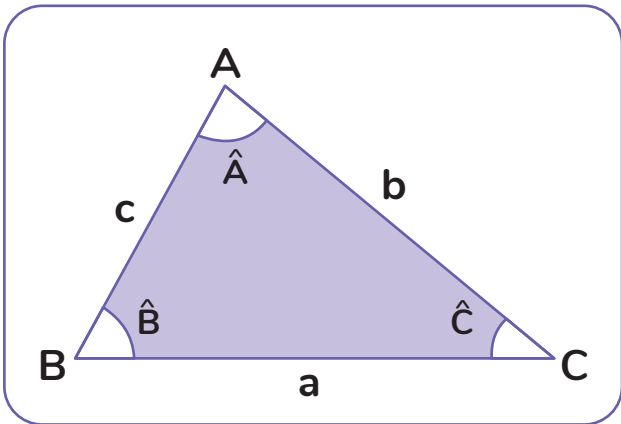
TRIÂNGULO QUALQUER

LEI DOS SENOS



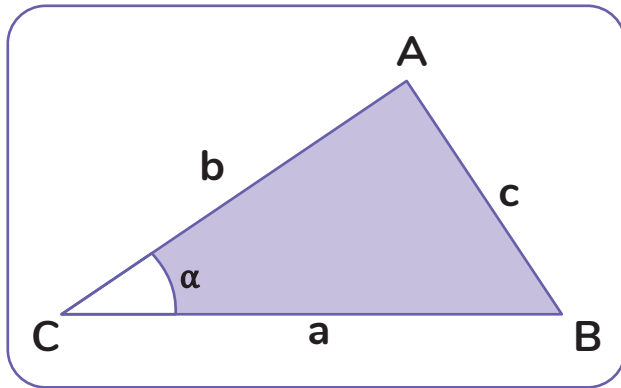
$$\frac{a}{\text{sen } \hat{A}} = \frac{b}{\text{sen } \hat{B}} = \frac{c}{\text{sen } \hat{C}} = 2R$$

LEI DOS COSSENIOS



$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos(\hat{A}) \\ b^2 &= a^2 + c^2 - 2ac \cos(\hat{B}) \\ c^2 &= a^2 + b^2 - 2ab \cos(\hat{C}) \end{aligned}$$

LEI DAS ÁREAS



$$\text{Área} = \frac{1}{2} ab \text{sen } \alpha$$