3.2.12

AI25BTECH11001 - ABHISEK MOHAPATRA

September 3, 2025

Question: Draw an isosceles triangle **ABC** in which **AB** = **AC** = 6 cm and **BC** = 6 cm.

Solution: Given,

a = b = c = 6cm

And, thus the angles are all $60°$

so, Let the vertices be $\mathbf{A} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$, $\mathbf{B} = \begin{pmatrix} 6 \\ 0 \end{pmatrix}$, and $\mathbf{C} = \begin{pmatrix} 6cos(60°) \\ 6sin(60°) \end{pmatrix}$

Graph: