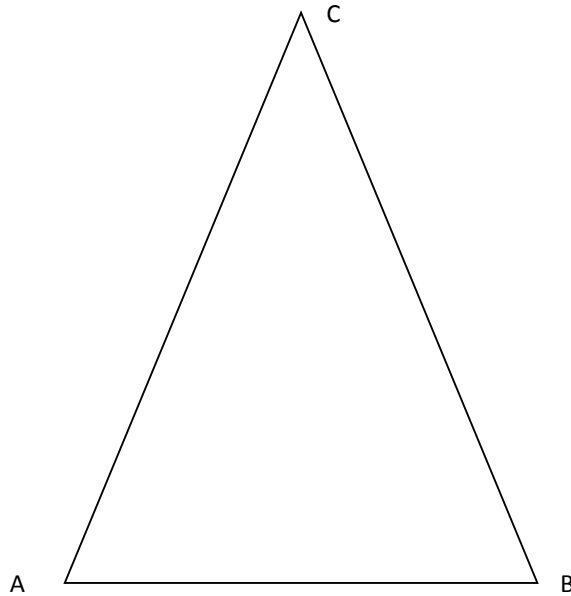


If a base angle of an isosceles triangle measures 50, what is the number of degrees in the measure of the vertex angle?

Solution:



We know that $\angle A = 50^\circ$. Because $\triangle ABC$ is the isosceles triangle then

$$\angle A = \angle B = 50^\circ.$$

The sum of the interior angles of a triangle is 180° . So

$$\angle A + \angle B + \angle C = 180^\circ,$$

$$50^\circ + 50^\circ + \angle C = 180^\circ,$$

$$\angle C = 80^\circ.$$

Answer:

80 (*degrees*)