

Question21456

If each interior angle of a regular polygon measures 90 degree, how many sides does the polygon have?
Solution. The measure of an interior angle of a regular polygon with n sides equals $\frac{180(n-2)}{n}$. Thus

$$\frac{180(n-2)}{n} = 90$$

$$180n - 360 = 90n$$

$$n = 4.$$

Answer. The polygon has 4 sides.