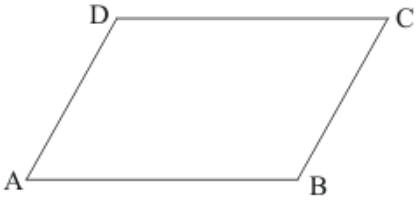
Quadrilaterals Ex 14.2 Q6

Answer :

It is given that *ABCD* is a parallelogram with $\angle A = 70^0$



We know that the opposite angles of the parallelogram are equal.

Therefore,

$$\angle C = \angle A$$

$$\angle C = \boxed{70^0}$$

Also, $\angle A$ and $\angle D$ are adjacent angles, which must be supplementary.

Therefore,

$$\angle A + \angle D = 180^0$$

$$70^0 + \angle D = 180^0$$

$$\angle D = 180^0 - 70^0$$

$$\angle D = \boxed{110^0}$$

Also, $\angle B$ and $\angle D$ are opposite angles of a parallelogram.

Therefore,

$$\angle B = \angle D$$

$$\angle B = \boxed{110^0}$$

Hence, the angles of a parallelogram are $\boxed{70^0}$, $\boxed{110^0}$, $\boxed{70^0}$ and $\boxed{110^0}$.

********** END **********