

Answer177

Question177. In a parallelogram ABCD angle A is $3x-2$ and angle C is $2x+23$. Find angle A and B.

Answer 177. In a parallelogram opposite angles are equal

$$\therefore \angle A = \angle C$$

$$3x - 2 = 2x + 23$$

$$\text{or } x = 25$$

$$\angle A = 73^\circ$$

In a parallelogram adjacent angles are supplementary

$$\therefore \angle A + \angle B = 180^\circ$$

$$\angle B = 180^\circ - 73^\circ$$

$$= 107^\circ$$