Q5.

Answer :

Let the measures of the angles of the given quadrilateral be $(3x)°,(5x)°,(7x)°$ and $(9x)°$. Sum of all the angles of a quadrilateral is 360o.∴3x+5x+7x+9x=36024x=360x=15

Angles measure: $(3×15)°=45°(5×15)°=75°(7×15)°=105°(9×15)°=135°$

Q6.

Answer:

Sum of the four angles of a quadrilateral is 360°.

If the unknown angle is x°, then:

75+75+75+x=360x=360-225=135

The fourth angle measures 135°.

Q7.

Answer:

Let the three angles measure x° each.

Sum of all the angles of a quadrilateral is 360°.

∴ x+x+x+120=3603x+120=3603x=240x=2403=80

Each of the equal angles measure 80°.

Q8.

Answer:

Let the two unknown angles measure x° each.
Sum of the angles of a quadrilateral is 360°.

∴ 85+75+x+x=360160+2x=3602x=360-160=200x=100

Each of the equal angle measures 100°.

Q9.

Answer:

Sum of the angles of a quadrilateral is 360°.
∴∠A+∠B+60o+100o=360°∠A+∠B=360-100-
60=200°or12∠A+∠B=100°   ... (1)Sum of the angles of a triangle is 180°.In ∆APB: 12∠A+∠B+∠P=180°
Using equation (1):100°+∠P=180°⇒∠P=80°

∴ ∠APB=80°

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