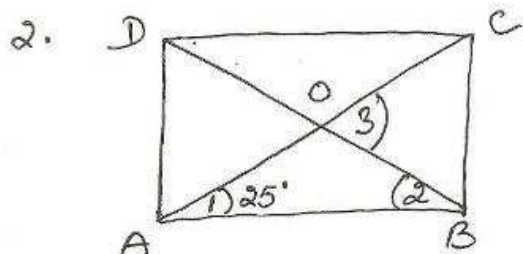
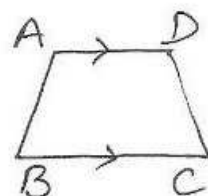


1. Fourth angle of \square
 $= 360^\circ - (75 + 90 + 75)$
 $= 360 - 240$
 $= 120^\circ$ (D)

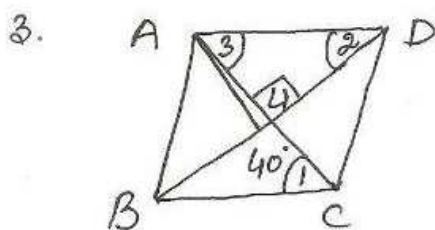


$AC = BD$ (diagonals of a ~~sq~~ rect.)
 $\frac{1}{2} AC = \frac{1}{2} BD$
 $OA = OB$ [diagonals of a rect bisect each other]
 $\Rightarrow \angle 1 = \angle 2$ (isos \triangle prop.)
 $= 25^\circ$
 $\angle 3 = \angle 1 + \angle 2$
 $= 25 + 25$
 $= 50^\circ$ (B)

4. diagonals of PQRS are perpendicular (C)
 5. diagonals of PQRS are equal. (D)



$\angle A = 126^\circ, \angle B = 54^\circ, \angle C = 102^\circ,$
 $\angle D = 72^\circ$
 $\angle A + \angle B = 126 + 54$
 $= 180^\circ$
 But these are co int \angle s
 $\therefore AD \parallel BC$
 $\angle A + \angle D \neq 180^\circ$
 $\therefore AB$ not parallel to DC
 $\square ABCD$ is a trapezium



$AD \parallel BC$
 $\Rightarrow \angle 3 = \angle 1 = 40^\circ$ (alternate inter. \angle s)
 $\angle 4 = 90^\circ$ (diagonals of a rhombus are \perp to each other)
 $\angle ADB = 180^\circ - (\angle 3 + \angle 4)$
 $= 180^\circ - (40 + 90)$
 $= 180^\circ - 130^\circ$
 $= 50^\circ$ (C)