Concept + Practice & A (1.5) ? » Math A X SSC Syllabus A ∆'S (17.5) Plane 11gm (un comportable) 3 Qrad. (2) geo Polygons(1) 8 approx - (10) Urcles (4) M15C (1)

#### Parallelogram (समांतर चतुर्भुज):

- Opposite sides are equal & parallel.
- Opposite angles are equal.
- Adjacent angles are supplementary.
- Diagonals (विकर्ण): 2 equal parts
- bisect each other
- bisect the area
- doesn't bisect the angle.
- Are not perpendicular and not equal.
- Side-diagonal relationship ?

Н

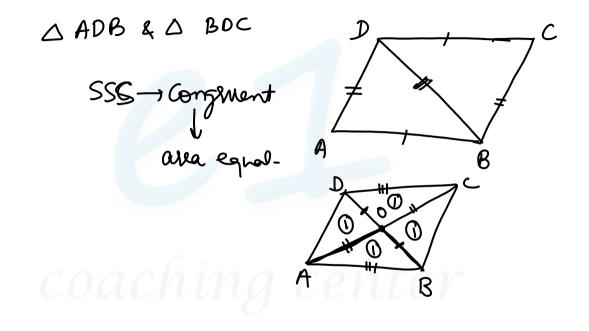
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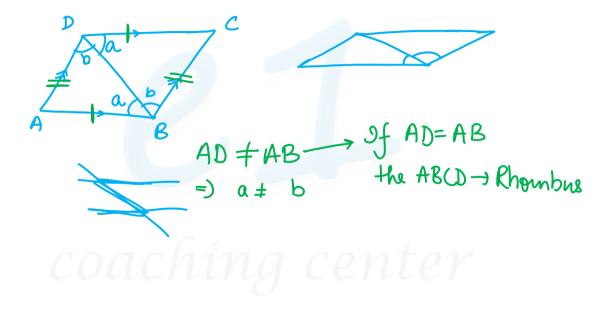
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Α

रेन रहा दीग

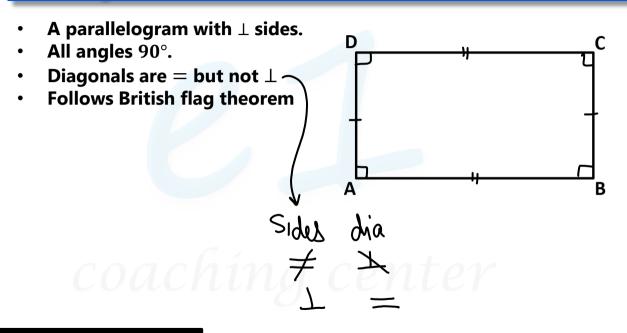


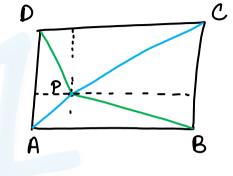


Side-diagonal relationship: True for all //gms Sides diagonals

General Ilgm. 1/gm with L's=90° Rectongle (31721d) Ilgm with all endes equal Rhombus ( सम-रातु र्मुग्र) Rectargle with all sides equal Square (dJi)

#### Rectangle (आयत):



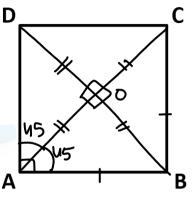


## $BP^2 + DP^2 = AP^2 + CP^2$

\* Point P Can be inside, On & outside the rectangle

## Square (वर्ग):

- A rectangle with equal sides.
- Diagonals are <u>equal</u>, perpendicular \_ and angle bisectors.

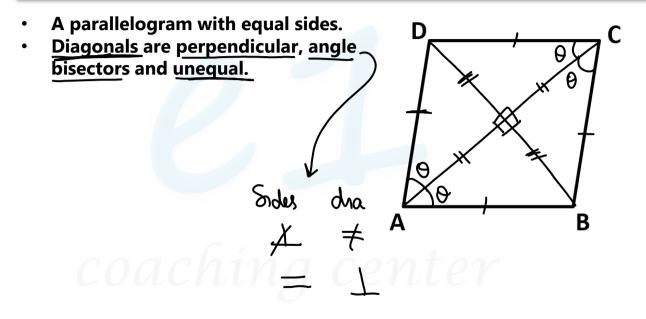


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Sides

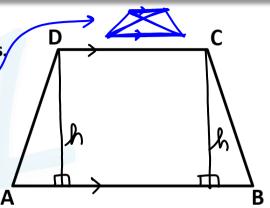
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### Rhombus (समचतुर्भुज):

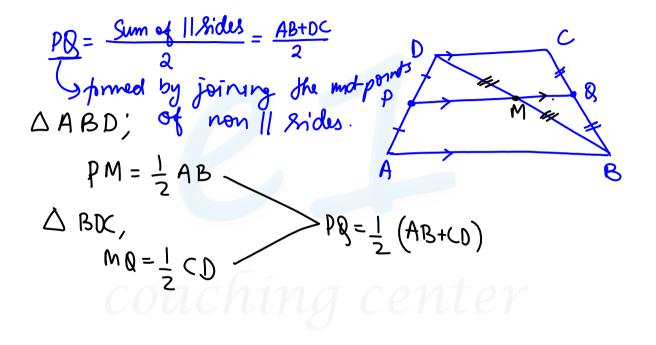


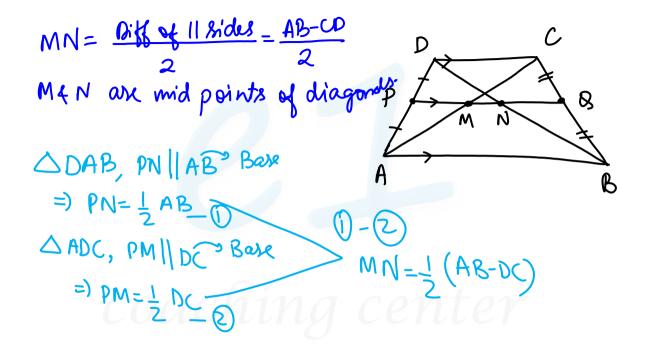


- A figure with a pair of parallel sides,
- Forms "Damru figure" on joining diagonals.
- Line joining the mid point of sides and diagonals.
- An isosceles trapezium is a cyclic quadrilateral.



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#### kite (पतंग):

- Figure with two pairs of equal adjacent sides.  $\triangle ABD = |s OB Cales = \triangle CBD$
- Made up of two isosceles triangles.
- One diagonal is on line of symmetry.
- All kites are tangential quadrilaterals.

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ABC≅ AADC (SSS)

B

D