CLASS 10TH MID TERM

BOOSTER

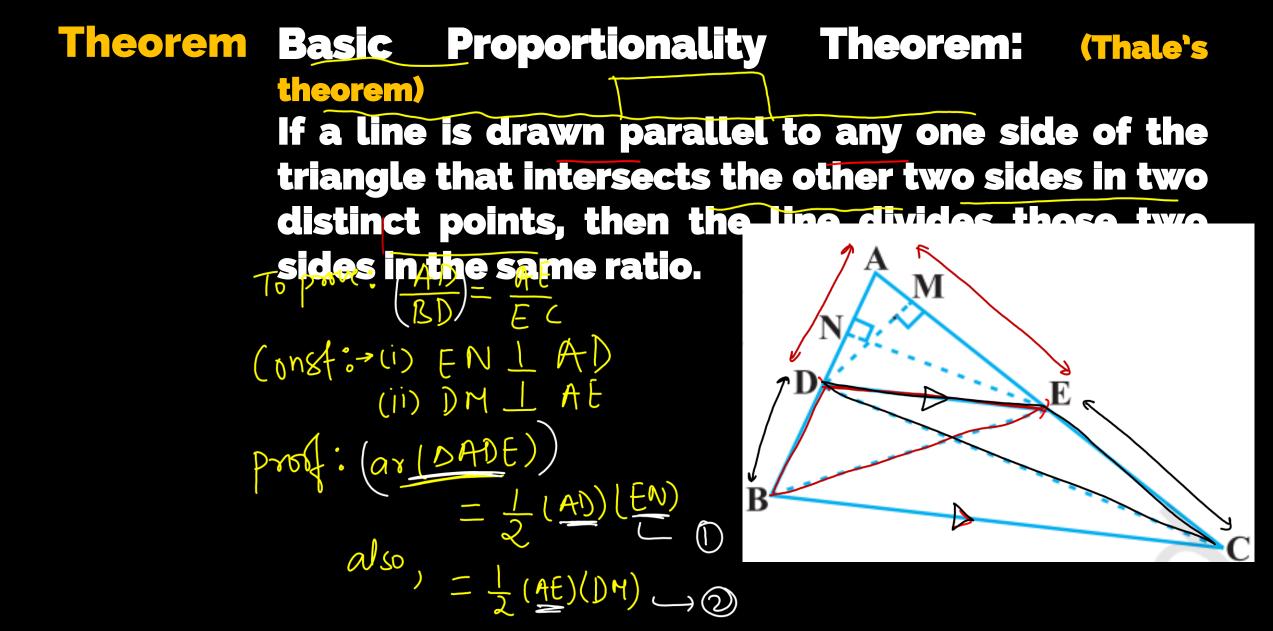
TRIANGLES

ONE SHOT



 Aptitude Test 	
 60-minutes concept-based lecture and career orientation Aptitude Test 	
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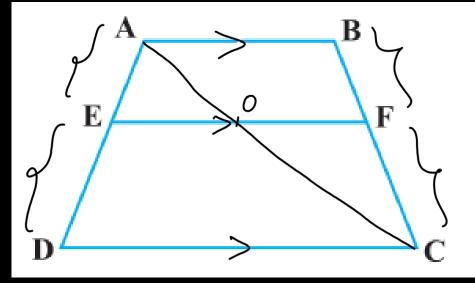
$$ar(ABDE) = \frac{1}{2}(DB)(EN) \longrightarrow (5)$$

$$ar(ADEC) = \frac{1}{2}(EC)(DH) \longrightarrow (4)$$

$$\left| \frac{1}{2} (3) + \frac{1}{2}(AD)(EN) - (4) + \frac{1}{2}(DB)(EN) - (4) + \frac{1}{2}(DB) + \frac{1}{2}(DB)(EN) - (4) + \frac{1}{2}(DB) + \frac{1}{2}(DB)(EN) - (5) + \frac{1}{2}(EC) + \frac{1}{2}(EC) + \frac{1}{2}(EC) + \frac{1}{2}(EC) + \frac{1}{2}(EC)(DH) + \frac{1}{2}(EC) + \frac{1}{2}(E$$

Q. ABCD is a trapezium with AB || DC. E and F are points on non-parallel sides AD and BC respectively such that EF is parallel to AB.

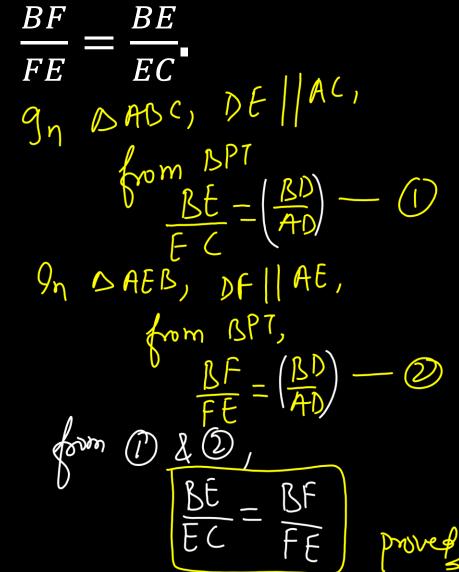
Show that
$$\frac{AE}{ED} = \frac{BE}{FC}$$
.
(onsf: -, Join AC cuthy line EF
 $af'O'$.
prof: $\triangle ADE$, $OE // CD$
from BPT,
 $\frac{AE}{ED} = \frac{AD}{OC}$ (1)

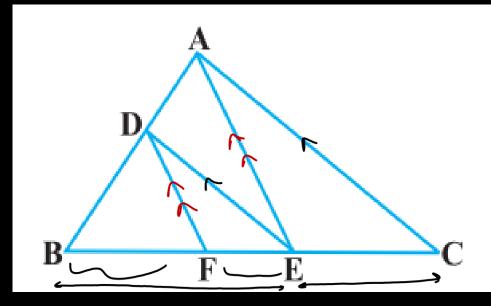




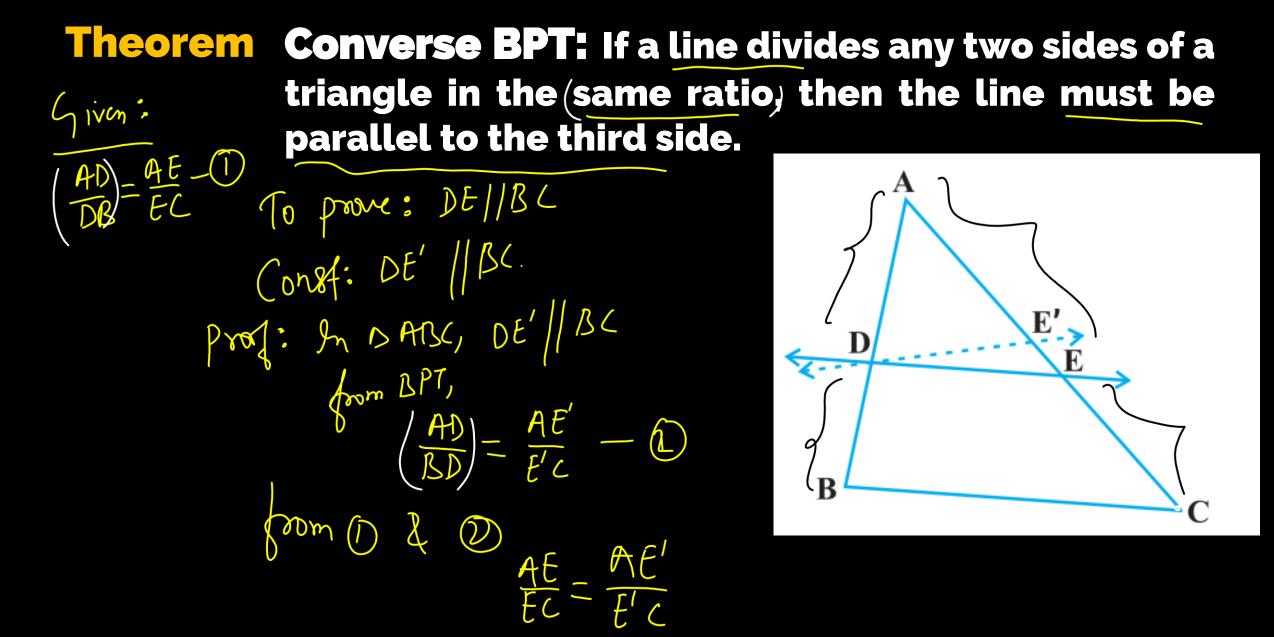
 g_{η} , $\triangle ABC$, OF ||AB, from, BPT. CF = OC BF = OA $\frac{BF}{CF} = \frac{AO}{COL} \qquad [faking reciprocal]$ from () &), $\frac{AE}{ED} = \frac{BF}{CF}$

Q. In fig. DE || AC and DF || AE. Prove that





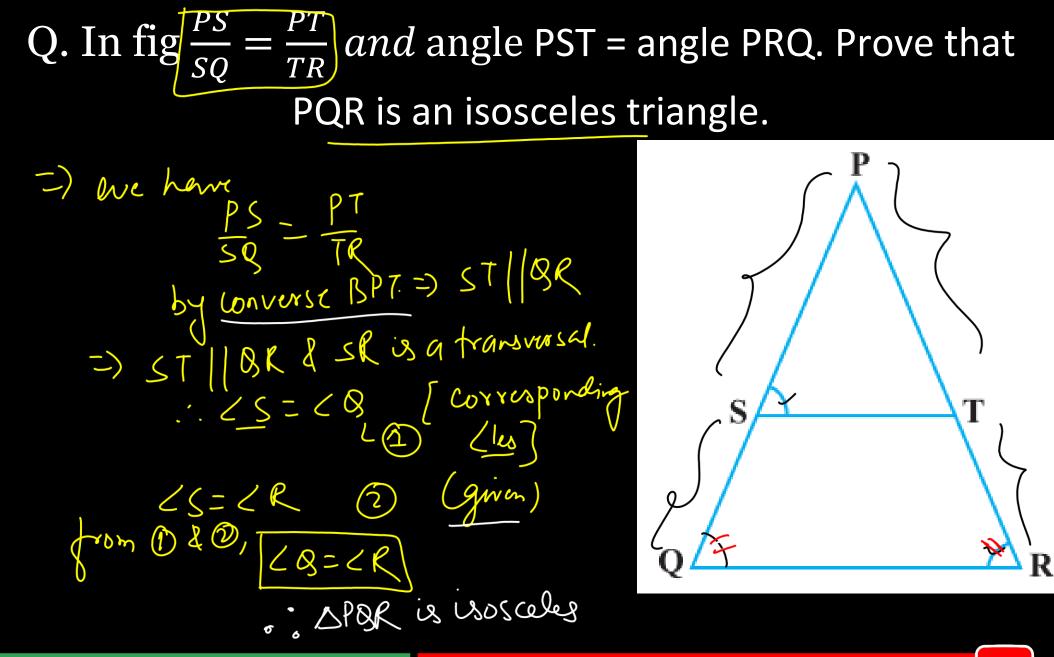




 $\frac{AE}{EC} = \frac{AE'}{E'C}$ (add '1' on both Sidus) $\Rightarrow \frac{AE}{EC} + 1 = \frac{AE'}{F'C} + 1$

 $\overrightarrow{AE} + EC - AE' + E'C$ $\overrightarrow{EC} - E'C$

E' & É Coincide DE || BC.



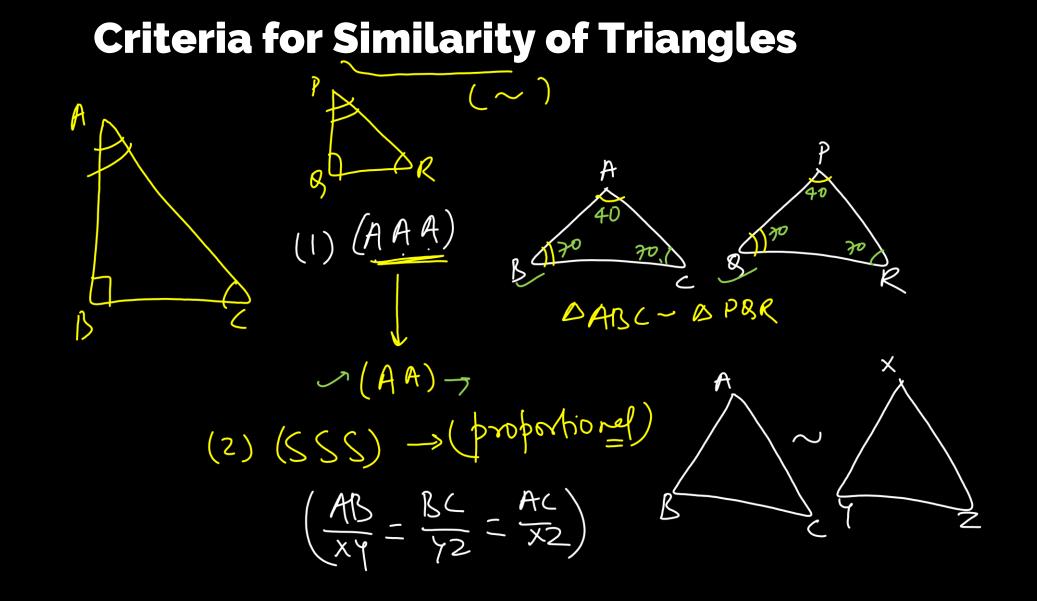
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Q. In Fig., DE || OQ and DF || OR. Show that EF || QR. 9n △POQ, DE//OQ _(I) Jn DPOR, DF || OR (\mathcal{D}) 20000

PE - PF BE - FR In DPQR, Converse of BPT, [EF/108R] power

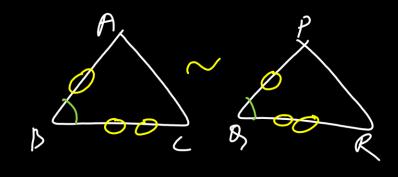
Q. The diagonals of a quadrilateral ABCD intersect each other at the point O such that **AO** \mathbf{CO} Show that ABCD is a trapezium. BO DO (onst: >/ 0 gnoBDC, by BPT \mathbf{O} E F (B) N AD (\mathcal{D})

$$\begin{array}{l} \frac{AO}{OC} = \frac{BF}{CF} \\ \frac{OC}{AO} = \frac{CF}{BF} - (3) \left(fahig reciproad \right) \\ \frac{OC}{AO} = \frac{CF}{BF} - (3) \left(fahig reciproad \right) \\ g_{11} \otimes ABC, by converse BPT. \\ using (3) \\ OF [] AAS \\ also, oF [] CD (by convers) \\ \vdots AB [] OF [] (CD) \\ \vdots AB [] OF [] (CD) \\ =) AB(O) is a trapezium. \end{array}$$

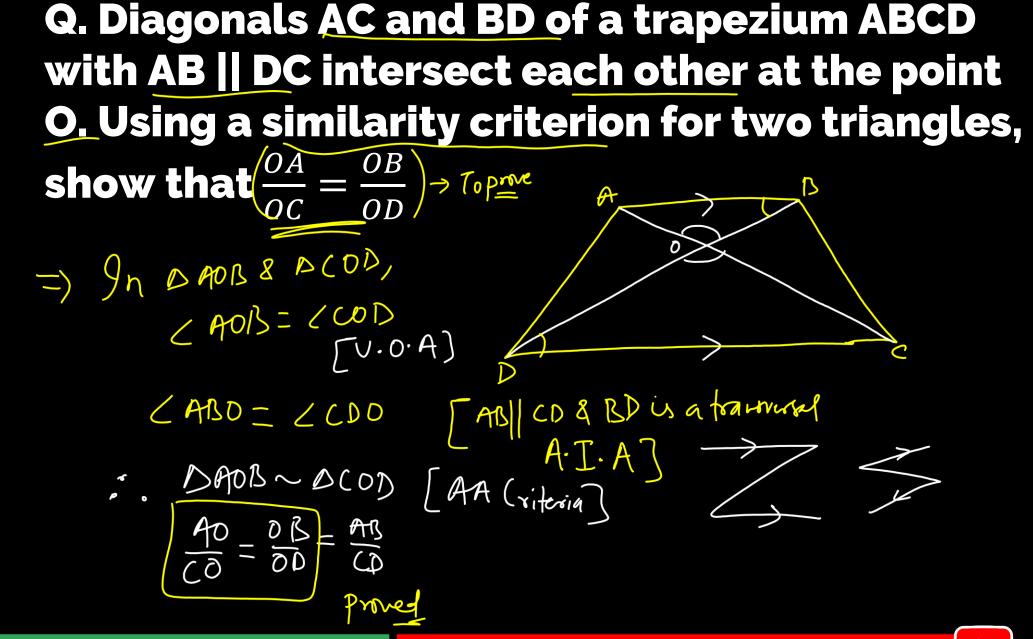




3 (SAS) included $\frac{Ars}{PR} = \frac{BC}{RR}$

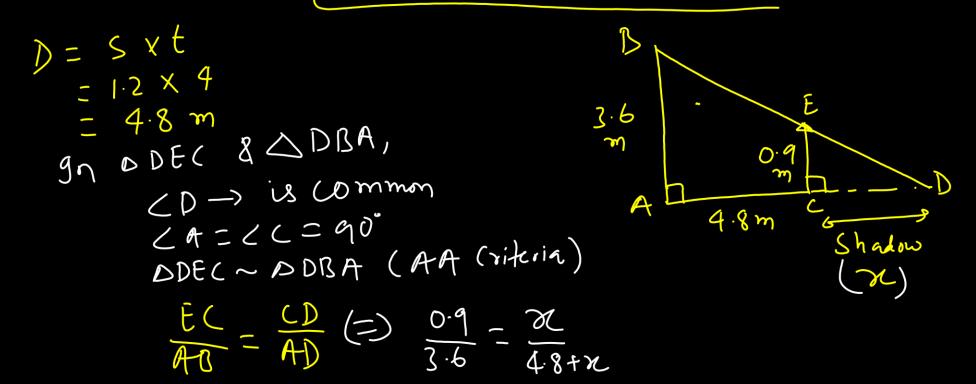


(1) AA (2) SSS (3) SAS



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Q. A girl of height <u>90 cm</u> is walking away from the base of a lamp-post at a speed <u>of 1.2 m/s</u>. If the lamp is <u>3.6 m</u> above the ground, find the length of her shadow after <u>4</u> seconds



$$9.9(4.8tx) = 3.6x$$

$$9.9 \times 4.8 + 0.9x = 3.6x \le$$

$$0.9 \times 4.8 = 3.6x - 0.9x$$

$$0.9 \times 4.8 = 2.7x$$

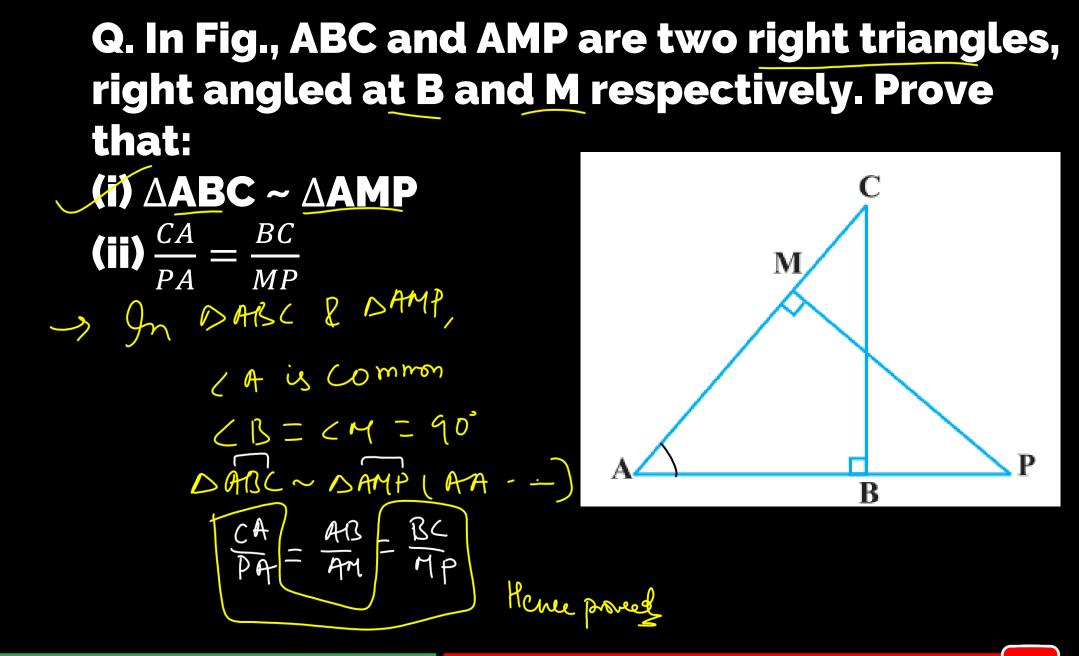
$$0.9 \times 4.8 = 2.7x$$

$$16$$

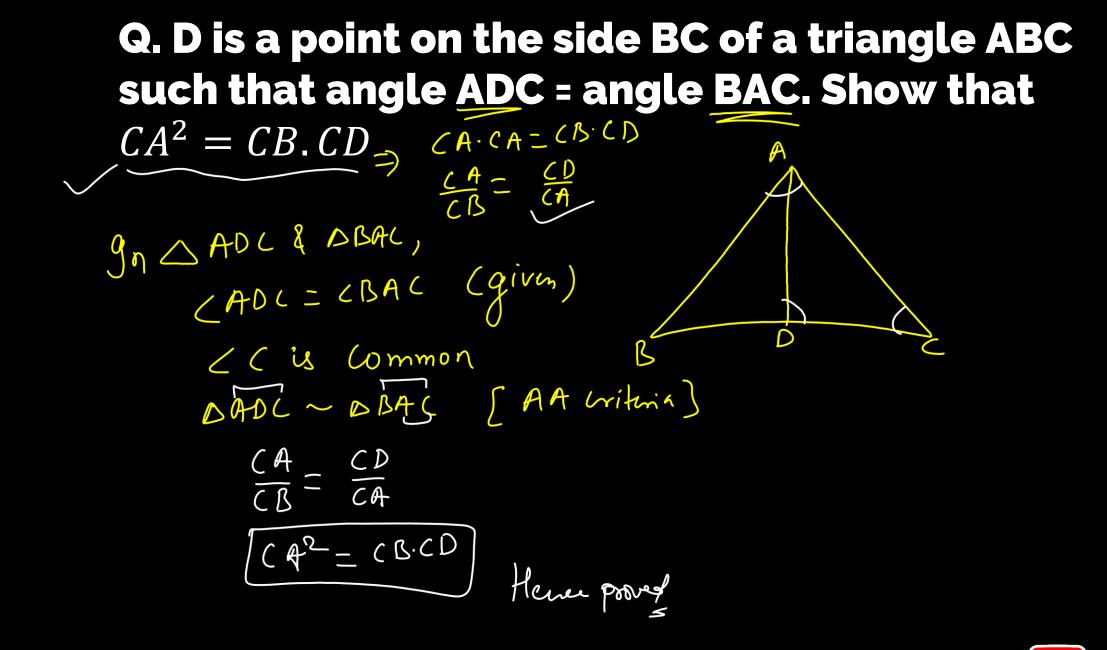
$$32 = 0.9 \times 4.8 \times 10$$

$$27 \times 10 \times 10$$

$$= 1.6 = 1.6 m$$



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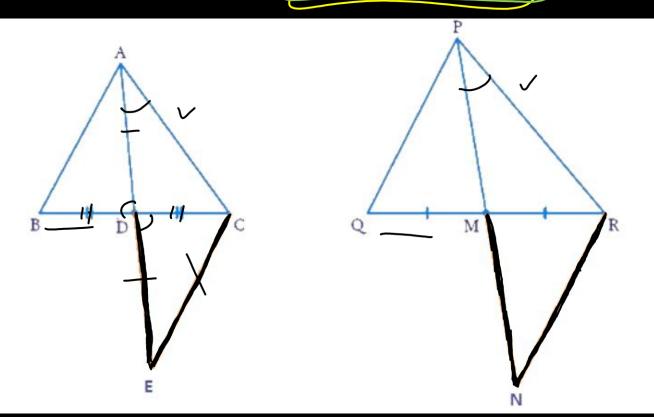


Q. Sides AB and AC and median AD of a triangle ABC are respectively proportional to sides PQ and PR and median PM of another triangle PQR. Show that \triangle ABC ~ \triangle PQR.

Civen:

$$\begin{pmatrix} AB \\ PQ \end{pmatrix} = \begin{pmatrix} AC \\ PR \end{pmatrix} = \begin{pmatrix} AD \\ PM \end{pmatrix}$$

Note $\begin{pmatrix} AB \\ PQ \end{pmatrix} = \begin{pmatrix} AC \\ PR \end{pmatrix} = \begin{pmatrix} AD \\ PM \end{pmatrix}$
 $\begin{pmatrix} PQ \end{pmatrix} = \begin{pmatrix} AC \\ PR \end{pmatrix} = \begin{pmatrix} AD \\ PM \end{pmatrix}$
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LINK IN THE DESCRIPTION

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$$\mathcal{L} C AD = \mathcal{L} R PM - 0$$

$$Similalii
\mathcal{L} BAD = \mathcal{L} Q PM - 0$$

$$Addig 0 & 0 & 0$$

$$\mathcal{L} CAD + \mathcal{L} Q AD = \mathcal{L} RPM + \mathcal{L} Q PM$$

$$\mathcal{L} DAC = \mathcal{L} Q PR$$

$$\mathcal{L} BAC = \mathcal{L} Q PR$$

Your Roadmap to Success

Stay on track with a structured schedule that covers every essential topic you need for mid-term success. Each class is designed to reinforce core concepts and provide ample practice to ensure you're fully prepared. Follow the timetable, access class PDFs, and watch video lessons—all at your own pace. Your journey to acing the exams starts here!

13th Sept 2024		
Торіс	PDF	Link
Real Numbers		
Life processes		

Download the class PDF now ! link in the description.

Homework Questions

- 1. A vertical pole of length 6 m casts a shadow 4 m long on the ground and at the same time a tower casts a shadow 28 m long. Find the height of the tower.
- 2. If AD and PM are medians of triangles ABC and PQR, respectively where \triangle ABC ~ \triangle PQR, prove that $\frac{AB}{PQ} = \frac{AD}{PM}$
- 3. Using Theorem, prove that the line joining the midpoints of any two sides of a triangle is parallel to the third side.



