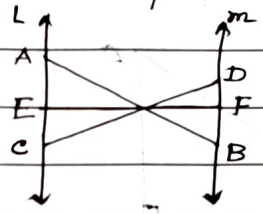
Revision- Day-05/10

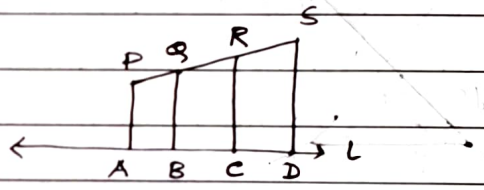
Chp → Triangle

BIVASH SIR

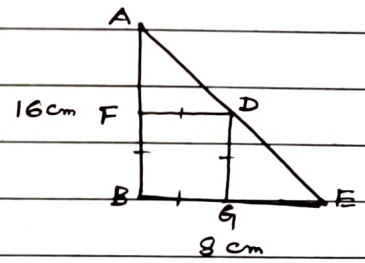
(1) In the given fig. $l \parallel m$ & line segments AB, CD & EF are concurrent at point P. Prove that $\frac{AE}{BF} = \frac{AC}{BD} = \frac{CE}{FD}$.



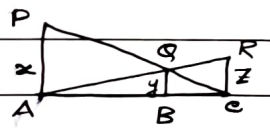
(2) In the given figure, PA, QB, RC & SD are all perpendiculars to a line 'l'. AB = 6 cm, BC = 9 cm, CD = 12 cm & SP = 36 cm. Find PQ, QR & RS.



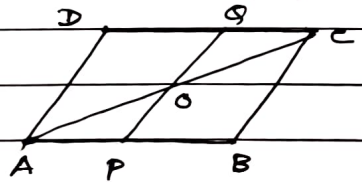
(3) Sides AB and BE of a right triangle, right ∠d at B are of lengths 16 cm & 8 cm respectively. Find the length of the side of largest square FDGB that can be inscribed in the △ABE.



(4) In fig., PA, QB & RC are each perpendicular to AC. If x = 8 cm, z = 6 cm, then find the value of y.



(5) ABCD is a parallelogram. Point P divides AB in the ratio 2:3 & Point Q divides DC in the ratio 4:1. Prove that OC is half of OA.



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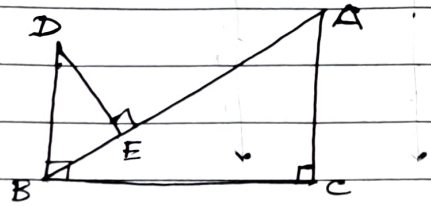
⑥ In the given fig., $DB \perp BC$, $DE \perp AB$ & $AC \perp BC$, Prove that $\frac{BE}{DE} = \frac{AC}{BC}$



⑦ Given that $\triangle PQR \sim \triangle BAR$, find