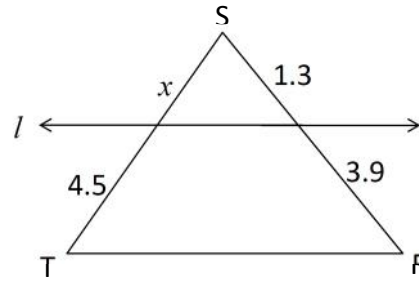




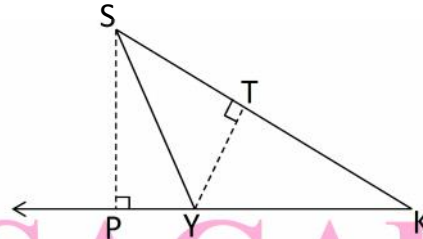
Q.1 A) Solve any four of the following.

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- 1) Find value of x if line l is parallel to side TR .



- 2) Seg $SP \perp$ side YK and
Seg $YT \perp$ seg SK
If $SP = 6$, $YK = 13$, $YT = 5$
 $TK = 12$ then find
 $A(\Delta SYK) : A(\Delta YTK)$



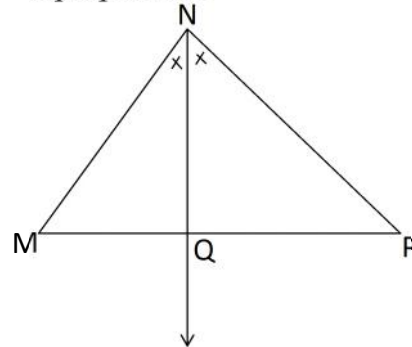
- 3) If $A(\Delta ABC) = 9\text{cm}^2$, $A(\Delta DEF) = 64\text{cm}^2$, $DE = 5.6$ cm then find AB .
- 4) Sides of triangles are 9, 40, 41. Check whether triangle is right angle triangle.
- 5) Find the side of a square whose diagonal is $16\sqrt{2}$ cm.

Q.2 Solve the following. (any three)

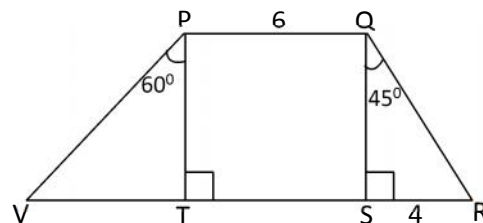
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- 1) Prove if a line parallel to a side of a triangle intersect the other sides in two distinct points, then the line divides those sides in proportion.

- 2) Point Q is on the side MP
Such that $MQ = 2$ and $MP = 5.5$
Ray NQ is the bisector of
 $\angle MNP$ of ΔMNP . Find $MN : NP$



- 3) $\square PQRV$ is a trapezium in which
seg $PQ \parallel$ seg VR
 $SR = 4$, $PQ = 6$ Find VR



- 4) As in figure
 $AB^2 + AC^2 = 122$
 $BC = 10$
Find the length of the median on side BC .

