

$\Rightarrow DL \parallel AC$ & $AL = TL$
 therefore $ADCL$ is a parallelogram.

Given $AB \parallel CK$ & $AB = CK$

$$\Rightarrow \hat{ABC} = \hat{BCK}$$

from $\triangle ABC$ & $\triangle BCK$

$$\begin{cases} AB = CK \\ \hat{ABC} = \hat{BCK} \\ BC \text{ (common side)} \end{cases}$$

$\Rightarrow 2 \triangle$ are \cong

$\Rightarrow AC \parallel BK$ & $AC = BK$

$\therefore ABKC$ is a parallelogram.

b) $2 \triangle ABD$ & CKL

$$\begin{cases} AD = CK & AD \parallel CK \\ AB = CK & AB \parallel CK \end{cases}$$

$\Rightarrow BD = KL$ & $BD \parallel KL$

$$\therefore \hat{DAB} = \hat{LCK}$$

On the sides AB & AC of a triangle ABC
 construct an exterior squares $ABDE$ and
 $ACFG$. The point P is the intersection of the
 diagonals EG and BD . Show that P is the middle of
 the line segment BC .

b) show that the ~~the~~ leading from ~~is~~ -
lines DC & BF intersect on the height AP
of $\triangle ABC$

c)