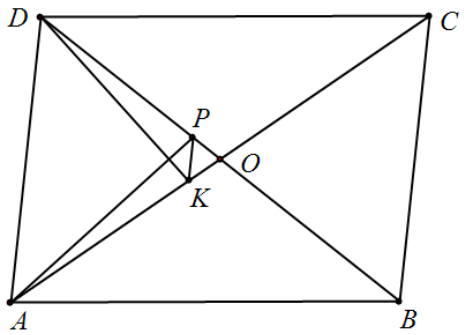

Example 45 : As shown in the figure, the diagonals of parallelogram $ABCD$ intersect at O, AP is the angle bisector of $\triangle DAB$, $PK \parallel DA$, to prove: $DK \perp PA$.

Proof: Let $O=0$, $P=sD$, $K=sA$, $\dfrac{\dfrac{A-D}{A-P}}{\dfrac{A-P}{A+D}}=t_1$, $\left(\dfrac{D-K}{A-P}\right)^2=T$, then

$T=1-t_1+s^2t_1$.