Answer on Question #81354 - Math - Geometry

 $\begin{array}{l} {\rm CA=BA-BC,\ CX=1/2CA=1/2(BA-BC),\ BX=BC+CX=BC+1/2(BA-BC)=1/2(BA+BC),\ YX=YB+BC+CX=YB+BA+AX=YD+DA+AX=YD+DC+CX,\ YX=1/4(YB+BC+CX+YB+BA+AX+YD+DA+AX+YD+DC+CX)\\ =1/2(YB+YD+CX+AX)+1/4(BC+BA+DA+DC),\ It is obvious that\ YB+YD=0,\ CX+AX=0. Thus\ YX=1/4(BC+BA+DA+DC). \end{array}$