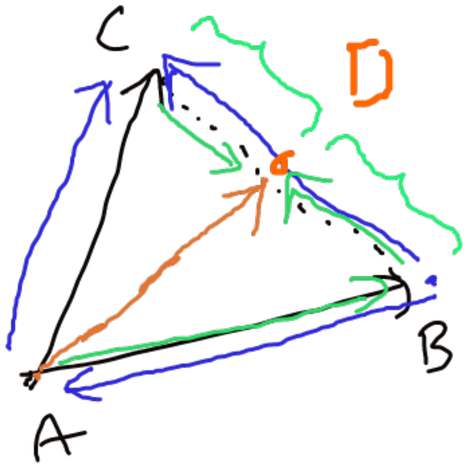
$\vec{AB} = (2,0,2)$ $\vec{AC} = (0,2,4)$

$\vec{BC} = [-2,0,-2] + [0,2,4] = [-2,2,2]$

$\vec{AC} + \frac{1}{2}\vec{CB} = \vec{AD}$

$\vec{AD} = [0,2,4] + [1,-1,-1] = [1,1,3]$



$\vec{BC} = \vec{BA} + \vec{AC}$

$= -\vec{AB} + \vec{AC} =$

$=$