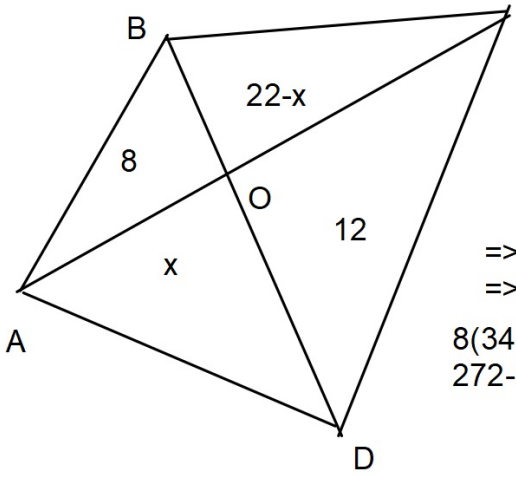

Пусть $S(\Delta DOA)=x \Rightarrow S(\Delta BOC)=S(ABCD)-8-12-x$
$S(\Delta BOC)=42-20-x=22-x$

$S(\Delta BOC)/S(\Delta BCD) = BO/BD$

$S(\Delta ABO)/S(\Delta ABD) = BO/BD$

$\Rightarrow S(\Delta BOC)/S(\Delta BCD) = S(\Delta ABO)/S(\Delta ABD)$
$\Rightarrow (22-x)/(34-x)=8/(8+x)$

$8(34-x)=(8+x)(22-x)$
$272-8x=176+14x-x^2$