

For an acute scalene triangle ABC , let D be the intersection of the side BC and the angle bisector of angle A . Moreover, let E and F be the circumcenter of $\triangle ABD$ and $\triangle ADC$ respectively. Assuming that $P(\neq D)$ is the point of intersection of the circumcircle of $\triangle BDE$ and $\triangle DCF$ and O, X, Y are the circumcenter of $\triangle ABC$, $\triangle BDE$, and $\triangle DCF$ respectively, show that $OP \parallel XY$.

