





MARCH PROBLEM CORNER

An arbitrary point P is taken on the plane of $\triangle ABC$ with circumcenter O and reflected over lines AB and AC to P_B and P_C respectively. Given that X is the intersection point of lines BP_B and CP_C , and Y is the second intersection point of the circumcircles of ΔXBC and ΔXP_BP_C , show that

- a) $\langle AYO = \langle BYP_R \rangle$
- b) Y, P, O are collinear

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