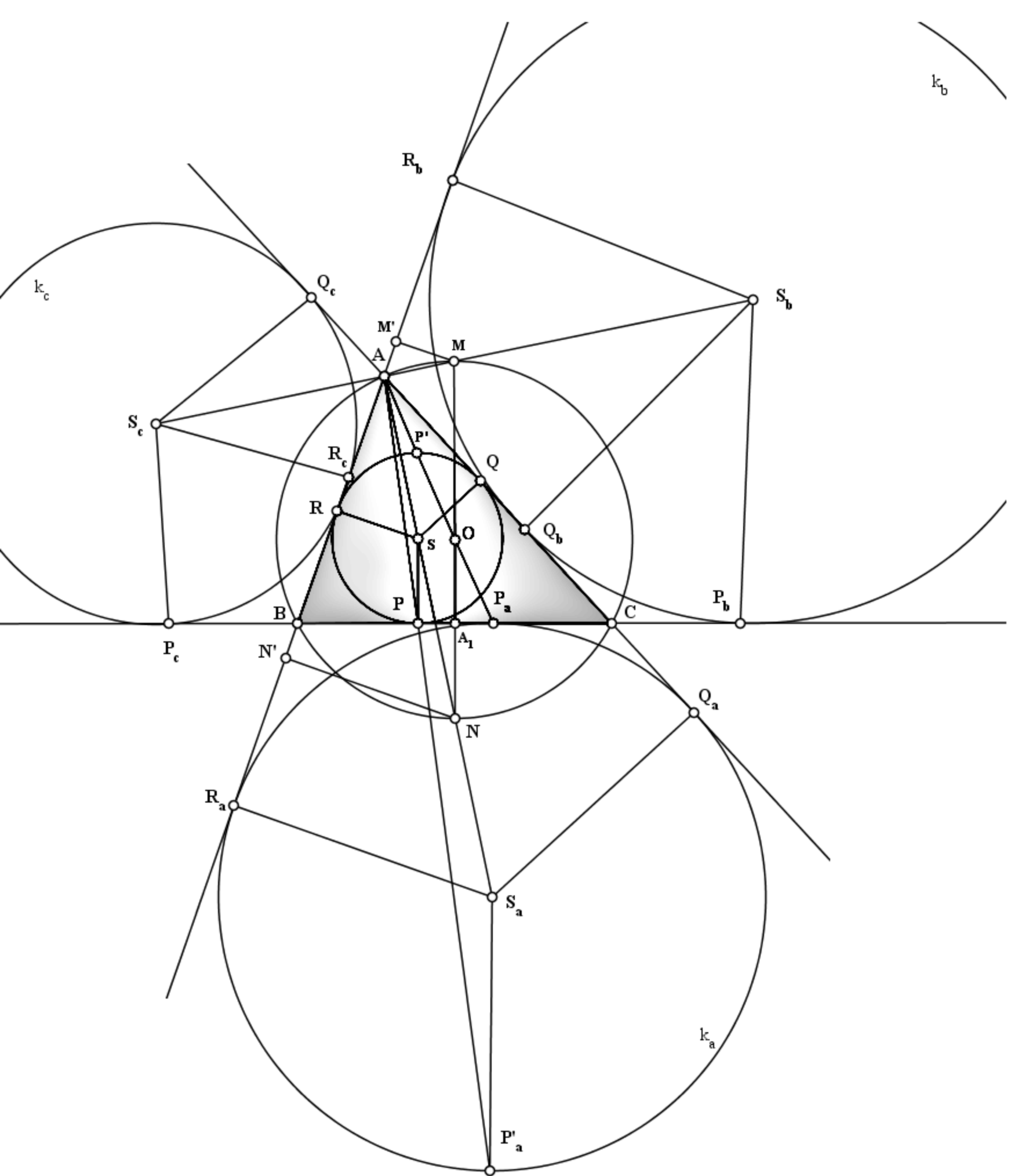




$$1. \mathcal{B}(A, P', P_a), \mathcal{B}(A, P, P'_a), \mathcal{B}(P_c, A, P'_b), \mathcal{B}(P_b, A, P'_c)$$

$$2. AQ_a = AR_a = p, QQ_a = RR_a = a, Q_b Q_c = R_b R_c = a$$

$$3. AQ = AR = BR_c = BP_c = CP_b = CQ_b = p - a$$

$$4. PP_a = b - c, P_b P_c = b + c$$

$$5. PA_1 = P_a A_1, P_c A_1 = P_b A_1$$

$$6. A_1 M = 1/2(\rho_b + \rho_c), A_1 N = 1/2(\rho_a - \rho)$$

$$7. MM' = 1/2(\rho_b - \rho_c), NN' = 1/2(\rho + \rho_a)$$

$$8. AM' = 1/2(b - c) = BN', AN' = 1/2(b + c) = BM'$$

$$9. \rho_a + \rho_b + \rho_c = 4r + \rho$$

$$10. NS = NS_a = NB = NC, MS_b = MS_c = MB = MC$$

$$11. M'N' = b$$