



$$\begin{aligned}
 & \left[ i(P_1) + \frac{1}{2} o(P_1) - 1 \right] \\
 + & \left[ i(P_2) + \frac{1}{2} o(P_2) - 1 \right] \\
 = & \left[ i(P) + \frac{1}{2} o(P) - 1 \right]
 \end{aligned}$$

$$\begin{aligned}
 i(P_1) + i(P_2) + t &= i(P) \\
 o(P_1) + o(P_2) - 2t - 2 &= o(P)
 \end{aligned}$$