

$$P_0 = x_0x_1 + x_0x_2 + x_1x_2$$

$$P_1 = -k^2x_0x_1x_2 + \left(m_0^2x_0 + m_1^2x_1 + m_2^2x_2\right)\left(x_0x_1 + x_0x_2 + x_1x_2\right)$$

