

$$\binom{0}{0}^* \binom{1}{0} \binom{0}{0}^* \binom{0}{1} \binom{0}{0}^* + \binom{0}{0}^* \binom{0}{1} \binom{0}{0}^* \binom{1}{0} \binom{0}{0}^* + \binom{0}{0}^* \binom{1}{1} \binom{0}{0}^*$$