

$$C_6 = (g_0(p_1 p_2 p_3)(p_4 p_5)) + (g_1(p_2 p_3)(p_4 p_5)) + (g_2(p_3 p_4 p_5)) + (g_3 p_4 p_5) + \\ + (g_4 p_5) + g_5 + (c_0(p_0 p_1 p_2)(p_3 p_4 p_5)) \quad - 14 \text{ branches}$$

$$C_7 = (g_0(p_1 p_2 p_3)(p_4 p_5 p_6)) + (g_1(p_2 p_3 p_4)(p_5 p_6)) + (g_2(p_3 p_4)(p_5 p_6)) + \\ + (g_3 p_4 p_5 p_6) + (g_4 p_5 p_6) + (g_5 p_6) + g_6 + (c_0(p_0 p_1 p_2)(p_3 p_4 p_5 p_6)) \\ - 17 \text{ branches}$$

$$\text{Total: } 8 + 8 + 2 + 3 + 4 + 7 + 10 + 14 + 17 = \underline{73}$$