$$f_1 = x_4 + x_3 + x_2 + x_2x_4 + x_2x_3x_4 + x_1x_4$$
$$f_2 = x_4 + x_3 + x_2 + x_2x_3x_4 + x_1 + x_1x_4 + x_1x_3 + x_1x_3x_4 + x_1x_2x_3$$
$$f_3 = x_3 + x_3x_4 + x_2 + x_2x_4 + x_2x_3 + x_1 + x_1x_4 + x_1x_3x_4 + x_1x_2x_4$$
$$f_4 = 1 + x_3x_4 + x_2 + x_1x_4 + x_1x_3 + x_1x_2 + x_1x_2x_4 + x_1x_2x_3$$