$$i(x) = x^3 + x^2$$
, 1100  
 $x i(x) = x^4 + x^3$ , 11000  
 $x^2 i(x) = x^5 + x^4$ , 1100000  
 $x^3 i(x) = x^6 + x^5$ , 1100000

• 
$$b(x) = (x6 + x5) + x$$

Encoder for 
$$g(x) = x^3 + x + 1 = g_3 x^3 + g_2 x^2 + g_1 x + g_0$$

