1 Consider pages 111 and 112 of the lecture notes and obtain (using functional derivatives):

a $G_3^{(0)}(x_1, x_2, x_3)_J$ & $G_3^{(0)}(x_1, x_2, x_3, x_4)_J$

b Specialize both expressions for $J = 0$

(write the answers to (a) and (b) both in terms of functions and in diagram form)