12. Starting with the joint space dynamics equation, derive the Cartesian space dynamic equation

$$Q = M\ddot{q} + C + G - F$$

$$\Downarrow$$

$$g_E = M_x \dot{\nu} + C_x + G_x + F_x$$

↳ not the M_x in Corke's text

What are the definitions of M_x, C_x, G_x, F_x in terms of the original $M, C, G, \text{ \& } F$?