Beam Example

Calculate and draw the response functions for $R_A$, $M_A$, $R_C$ and $V_B$. 
Example Truss Structure

Calculate and draw the response functions for $A_x$, $A_y$, $F_{CI}$ and $F_{CD}$. 
Example Truss Problem: Application of Loads to Maximize Response
Place

UDL = 1.0 k/ft;
ULL = 4.0 k/ft;
CLL = 20 kips

to maximize the tension and compression axial forces in member CM.

Calculate the magnitudes of the tension and compression forces.