Homework #4

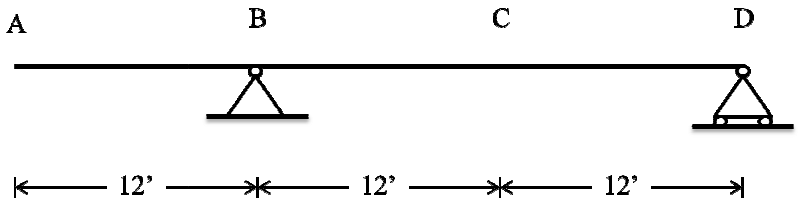
Note: Show values on the diagrams

Problem 1

a) Draw the influence lines for B_y, D_y, V_C, & M_C using the equation method

b) Verify all results using the Müller-Breslau principle (show how all values are found without using the equations calculated in part a)

c) Using the influence line diagrams, determine the values of B_y, D_y, V_C, & M_C caused by a downward force of 2 kip located at point A and a distributed load of 0.8 k/ft spanning from A to D



Problem 2

a) Draw the influence lines for A_y, D_y, M_A, V_C, & M_C using the equation method

b) Verify all results using the Müller-Breslau principle (show how all values are found without using the equations calculated in part a)

c) Using the influence line diagrams, determine the values of A_y, D_y, M_A, V_C, & M_C caused by a downward force of 5 kip located at point E and a distributed load of 0.5 k/ft spanning from A to D