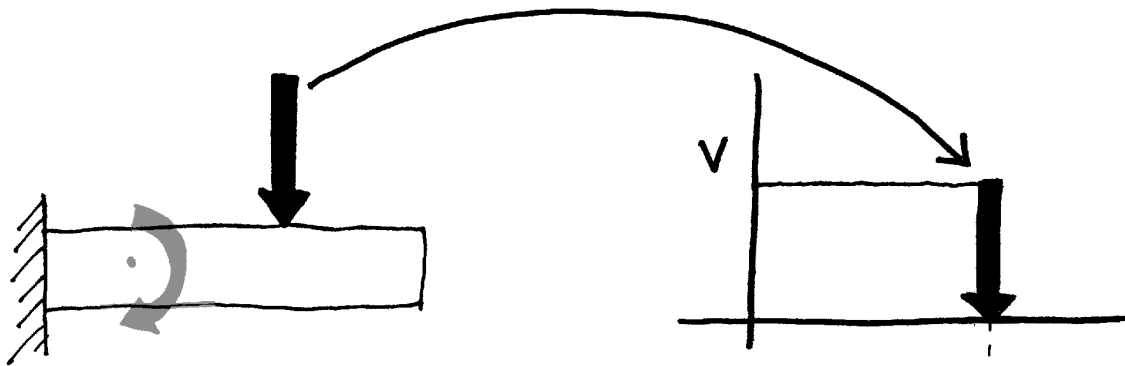
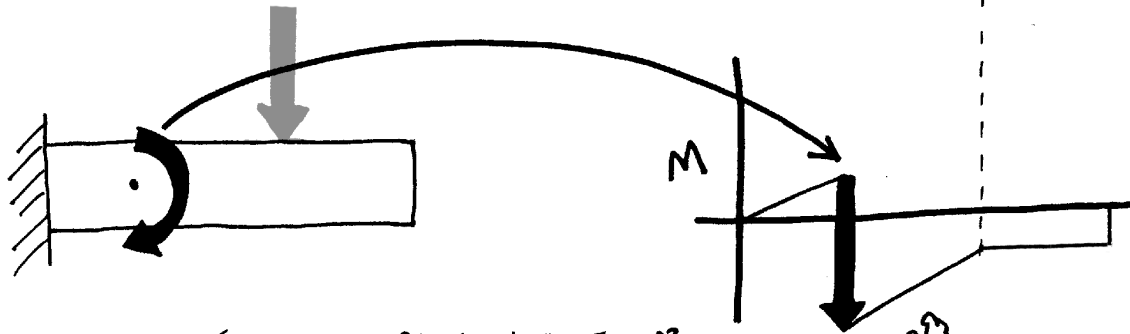


3 PLOT AND SKETCH POINT LOADS AND MOMENTS.

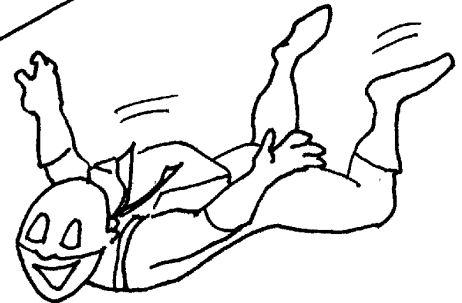
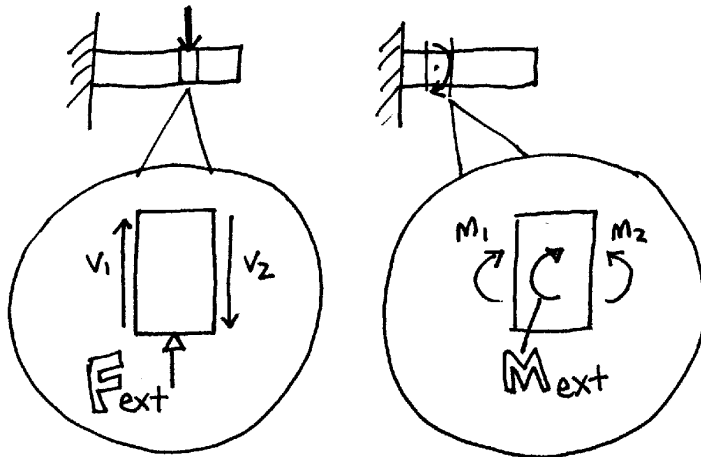


A POINT LOAD CAUSES THE SHEAR FORCE TO JUMP BY THAT VALUE IN THE DIAGRAM. A POINT MOMENT WILL DO THE SAME IN MOMENT DIAGRAMS.



HOW TO CHOOSE WHICH DIRECTION TO JUMP?

1. ISOLATE THE AREA WHERE THE POINT LOAD/MOMENT IS.



$$2. V_2 = V_1 + F_{ext}$$

$$M_2 = M_1 + M_{ext}$$

USE THE EQUATIONS TO DETERMINE F_{ext} OR M_{ext}
 THE JUMP IN THE DIAGRAM IS IN THE DIRECTION OF F_{ext} OR M_{ext}