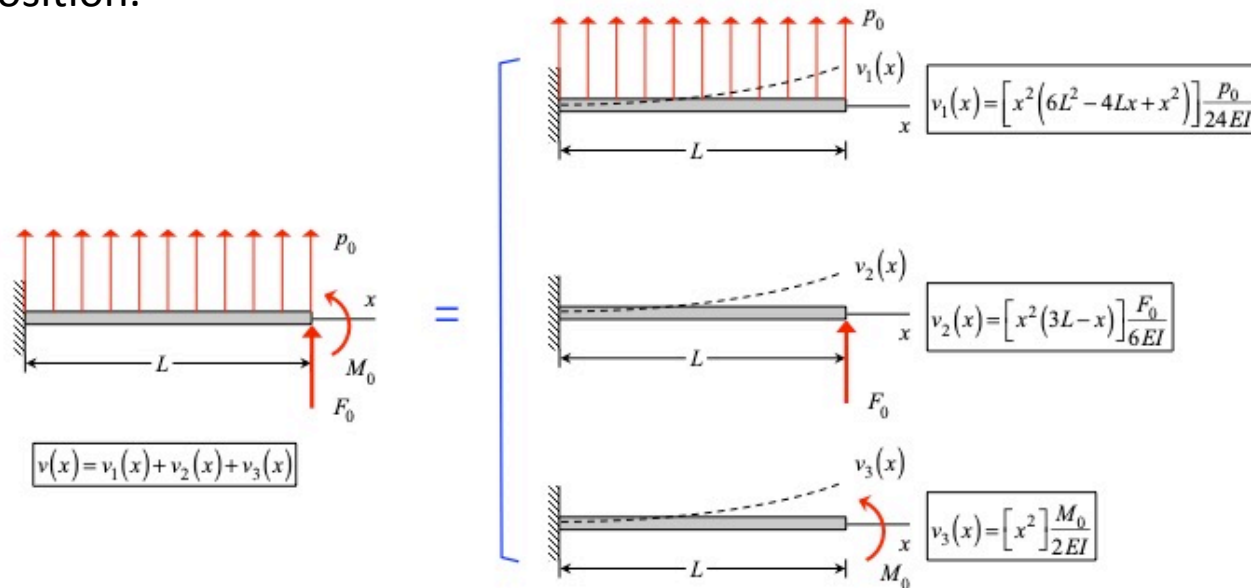


Summary: Beam deflection by superposition (determinate)

GOAL: Break down complicated loading on a beam into simple loading components and used published deflection formulas to determine the beam deflection through linear superposition.

EXAMPLE:



METHOD

- Each component system must be in equilibrium.
- For piece-wise defined loadings and intermediate supports, the superposed solutions must be written in a piece-wise way.
- The components chosen are not unique; there are typically many ways to solve.