Quick Ways To Draw (V) & (M) Diagrams

To draw the internal shear diagrams:

"Look at the given beam structure, observe how the shear forces applied on the beam. Then, draw the (V) diagram accordingly"

To draw the internal moment diagrams:

Step 1: Refer to the shear diagram, and compute the areas under the shear diagram sections

Step 2: Compute the initial value of internal moment (including the proper sign), say $M_{①}$

Step 3: Apply the formula: $M_{②} - M_{①}$ = area under (V) diagram, between Sections ① & ② to compute $M_{②}$

Step 4: Decide how to connect the (two) dots in the (M) diagram, by refering to Eq. $\frac{dM}{dx} = V$; or $M_{②} - M_{①} = \int_{①}^{②} V\,dx$