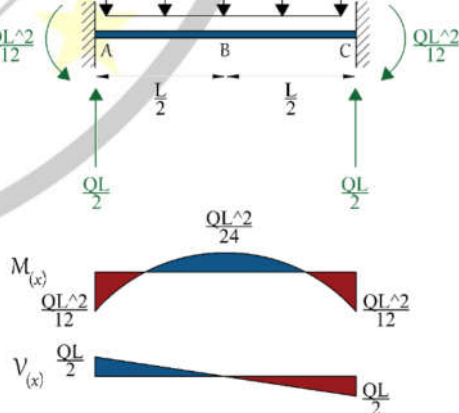
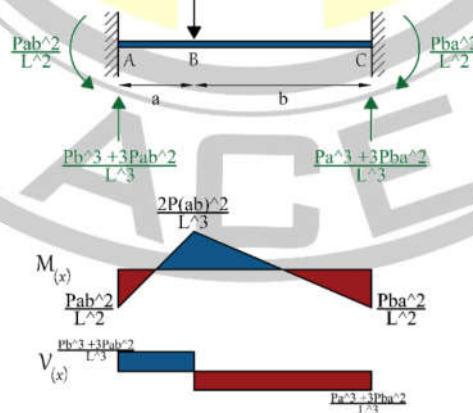
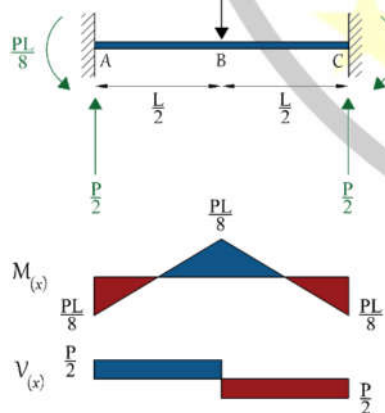
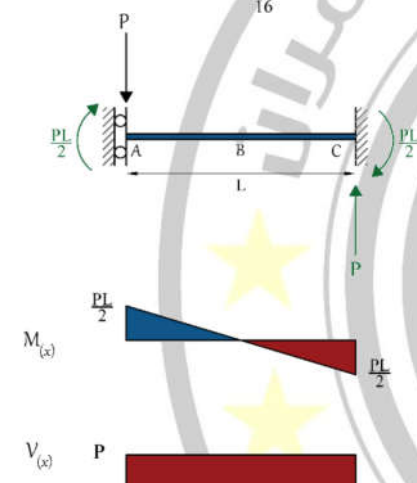
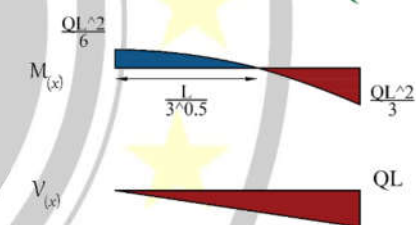
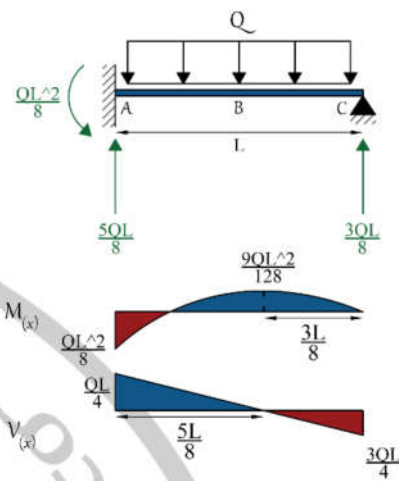
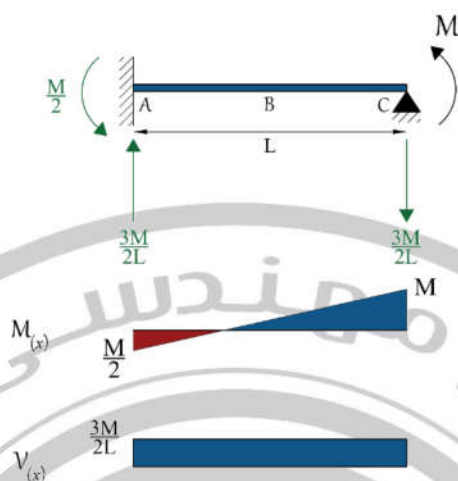


Diagram of a beam with a fixed support at A, a roller support at C, and a downward point load P at B. The beam has segments AB and BC, each of length $L/2$. Below the beam are the shear force $V(x)$ and bending moment $M(x)$ diagrams.

The shear force $V(x)$ is constant at $\frac{11P}{16}$ from A to B and drops to $\frac{5P}{16}$ at B.

The bending moment $M(x)$ is a linear function, starting at $\frac{3PL}{16}$ at A, peaking at $\frac{5PL}{32}$ at B, and ending at 0 at C.



مقدار خیز تیر های نامعین

