

Rules for Shear and Moment Diagrams

1. The slope of the shear diagram at any point is equal to (-) the load intensity at the same point.
2. The change in shear between two points on the shear diagram is equal to (-) the area under the loading diagram between the same two points.
3. The slope of the moment diagram at any point is equal to the shear the same point
4. The change in moment between two points on the moment diagram is equal to the area under the shear diagram between the same two points.

Always Go Left to Right

1. Downward external force moves the V diagram downward
2. Upward external force moves the V diagram upward
3. Clockwise external moment moves the M diagram upward.
4. Counter clockwise external moment moves the M diagram downward.