Eg. Pythor for simply supported bean LILL let l= \$5m, q=20 kN/m FAy=FBy= E/ FAx=0 A TIMES . OLD 215 Moto, Mo+ 2x2 - Tgx  $M = F_{Ay} \times -\frac{9x^2}{2}$ ,  $M = \frac{9lx}{2} - \frac{9x^2}{2}$ ,  $M = \frac{9}{2}(lx-x^2)$ V= Fg-2x, 21-2x, 2(1/2-x) 2) Script import soungy as no 2=20 x = np. linspre (0, 1, 20) M- 2/2\*(1\*x-x\*x)) V= 2\*(1/2-x) 3) Plot from not plot lib import pyplot as plt plt. figure (figsize = (10,41) pit-plot (EO] \* lan(x), color='k') plt. plot (M, color='bi)

plt. plot (V, color=11)