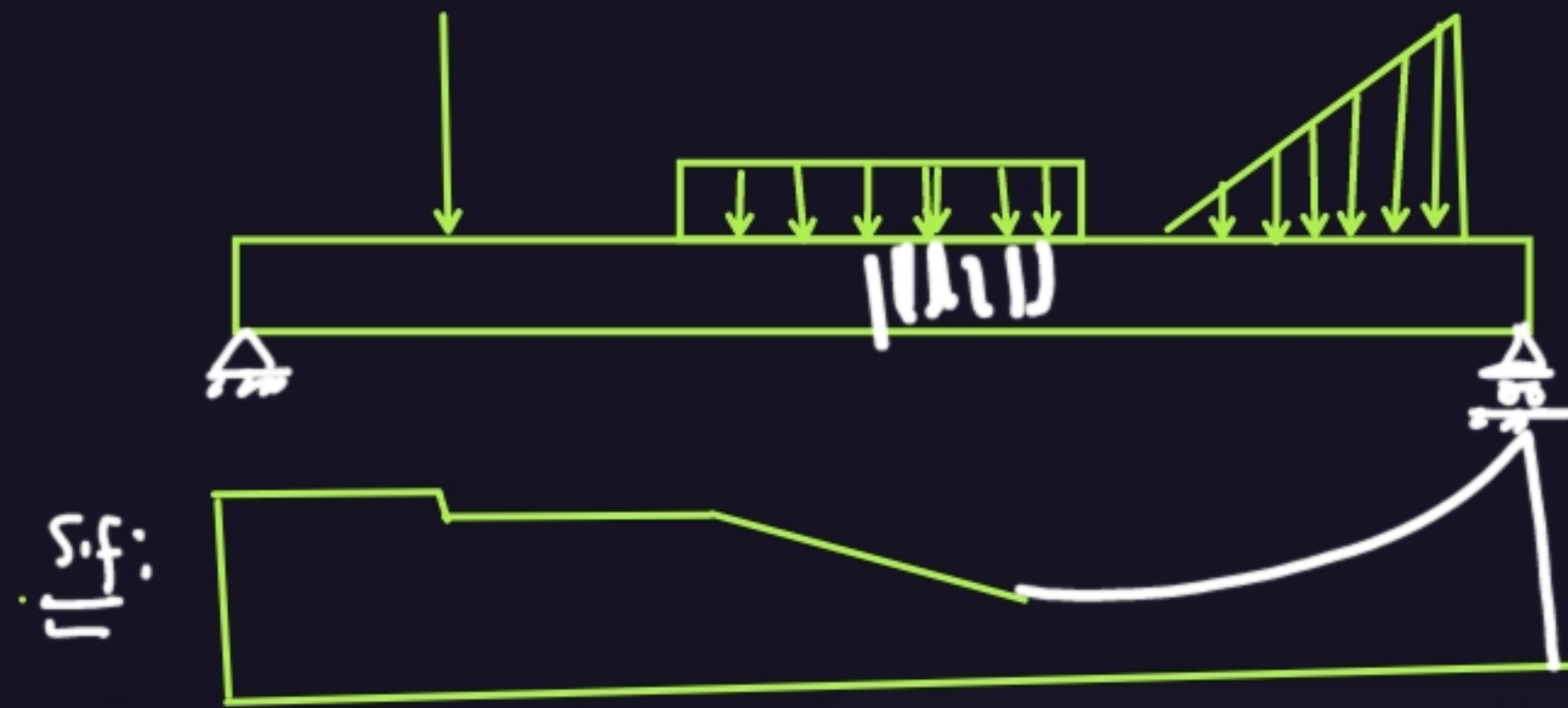


S.F.D | B.M.D



B.M.D

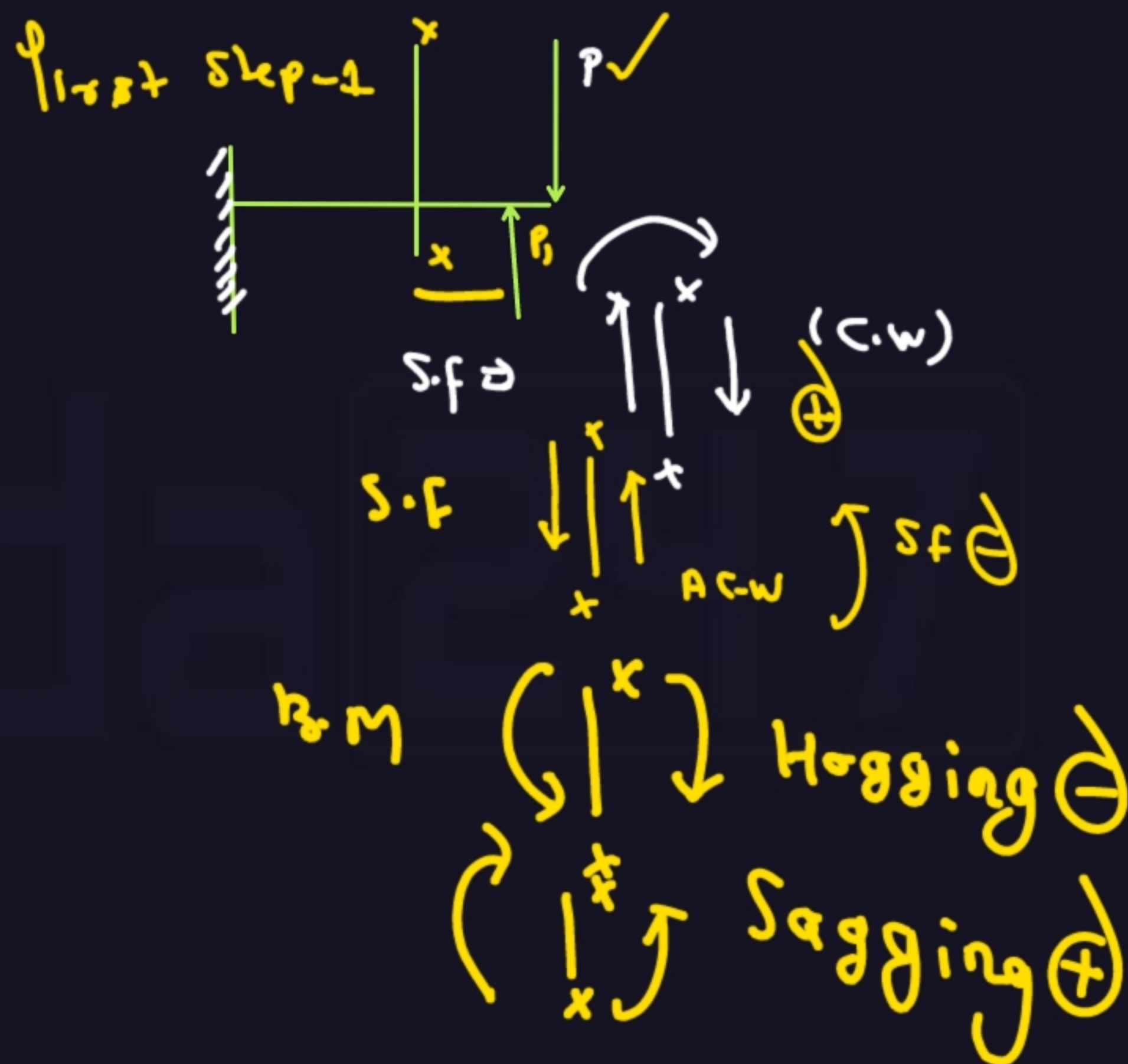
To check the variation of S.F & B.M
So that we can find min & max value

S.F.D | B.M.D \rightarrow method / Trick

(1) Sign

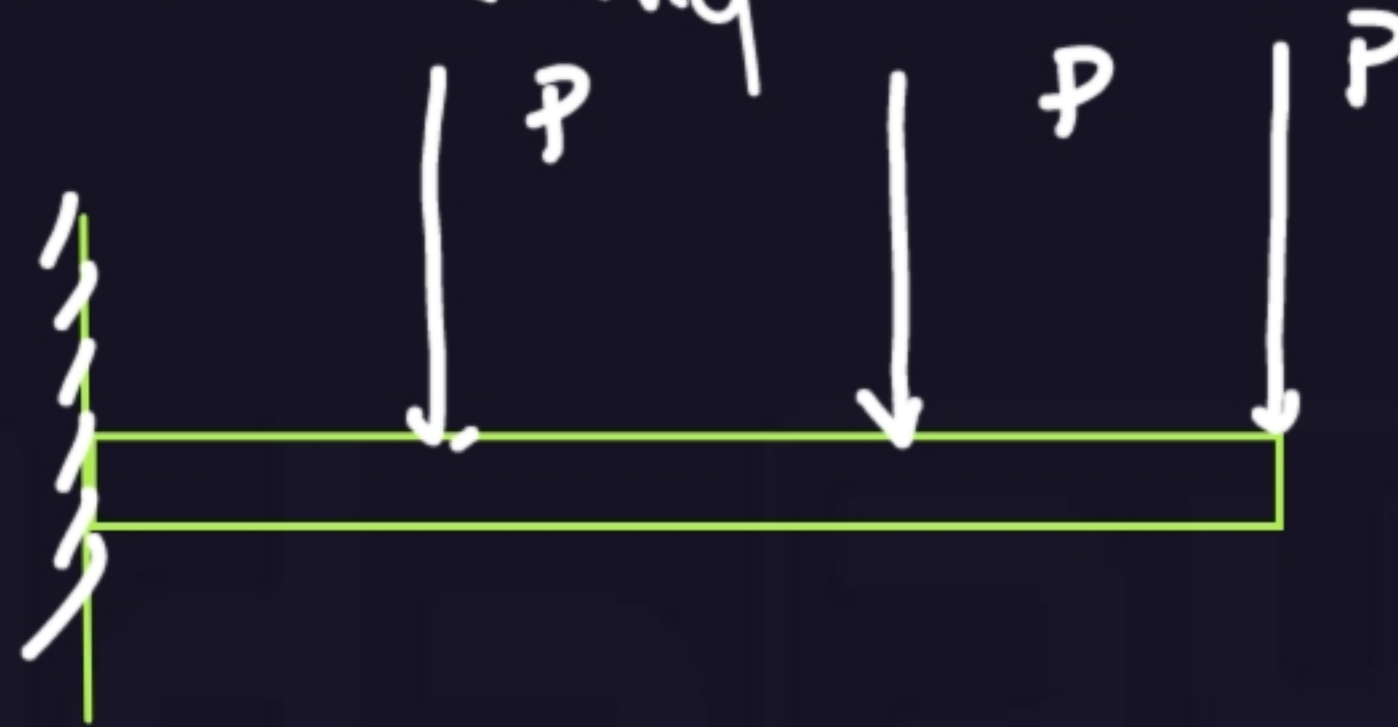
(2) Reaction

(3) S.F. Calc
B.M. Calc



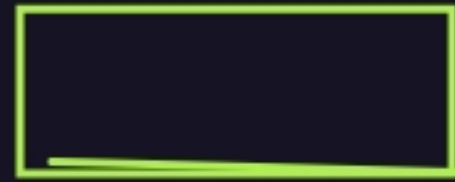
① Trick C.B → No need to calculate the reaction

② Always Start free end



Trick

Load



Point load

Sf.D \rightarrow Rectangle

B.M.D \rightarrow Triangle

U.D.L

Triangle

Parabolic



Parabolic

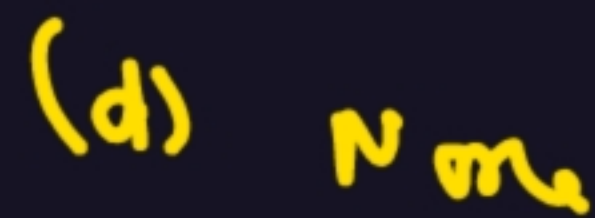
Cubic Parabola

eliminate

अद्वितीयता का प्रयोग



correct B.M.D



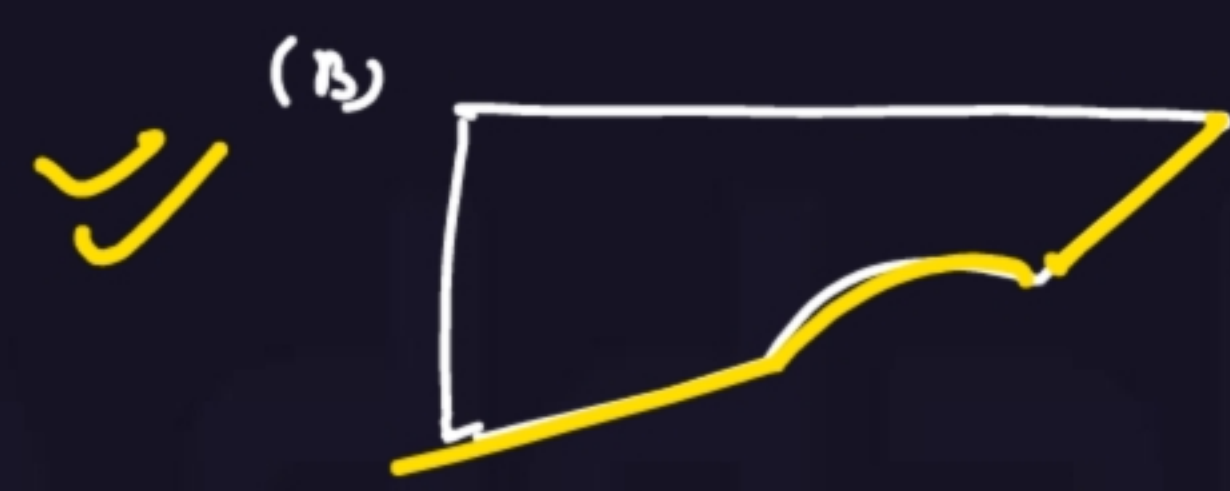
S.F.D

Triangle

Exam Ans (b)



Which B.M.D (Trick 10 sec)
(A)  S.F.D



Trick:
|



(d) N.m.e

S.F.D/B.M.D by method

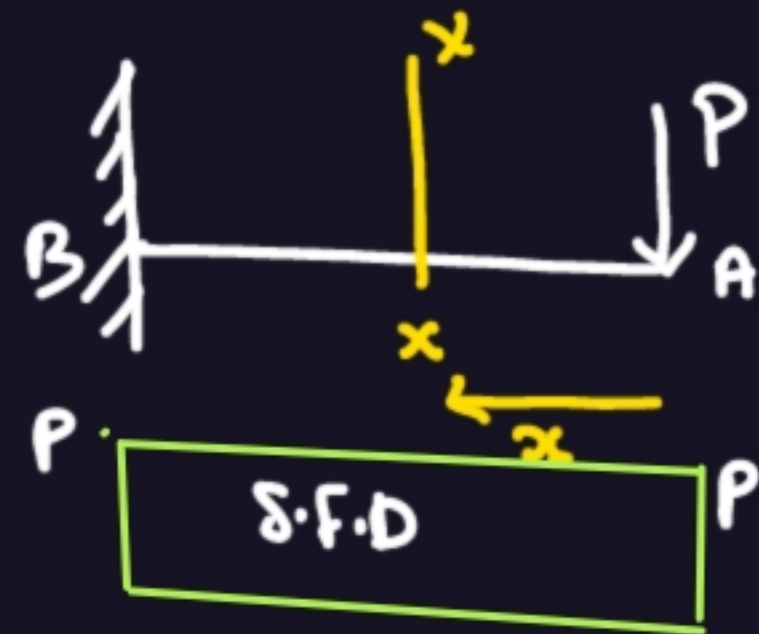
by eqⁿ method

By Point method

C.B



S.f.d | B.M.D of C.B



$S_x = P$ = Sum of T.S.L either OR R.H.S

S.f at A = P

S.f at B = P

B.M

M_x = Sum of all moment either or right

$M_x = -Px$

$M_x \propto x$ Linear

B.M at A = $M_A = 0$ ($x=0$)

B.M at B = $M_B = -PL$ ($x=L$)

$(B.M)_{max}$

(PL)



