A

$$R = \frac{M}{R}$$
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$$V_{\times} = -\frac{m}{2} = kAG(-\Theta + \frac{dA}{dx})$$

$$M_{x} = \frac{Mx}{2} = -EI \frac{\partial \theta}{\partial x}$$

$$V_{x} = \frac{-M}{2} = hAG \left(-\Theta + \frac{\partial A}{\partial A}\right)$$
 3

$$M_{\chi} = \frac{-M_{\chi}}{e} + M = -EI \frac{\partial Q}{\partial \chi}$$
 (4)

$$\frac{-mx}{kabl} + \frac{mx^2}{bEll} - \frac{mx^2}{ZE1} + C_3x + C_4 = A$$

6= CONSTANT CX=a

$$\frac{ma^{2}}{Z_{E|R}} + c_{1} = \frac{mx^{4}}{Z_{E|R}} - \frac{mn}{E1} + c_{3}$$

$$c_{1} = \frac{-ma}{E1} + c_{3} = \sum_{i=1}^{\infty} C_{i} = \frac{-ma}{E1} - \frac{ma^{2}}{Z_{E|R}} + \frac{m}{kA6R} + \frac{mR}{3E1}$$

S=constant e x=a

$$-\frac{m\chi}{kAGR} + \frac{m^{2}}{kEIR} + C_{1}\alpha = -\frac{m\alpha}{kAGR} + \frac{m\chi^{2}}{kEIR} - \frac{m\alpha^{2}}{ZEI} + C_{3}\alpha + \frac{m}{kAG} + \frac{me^{2}}{3EI} - C_{3}R$$

$$-\frac{m\alpha^{2}}{EI} + C_{3}\alpha = -\frac{m\alpha^{2}}{ZEI} + \frac{m}{kAG} + \frac{mR^{2}}{3EI} - C_{3}R$$

$$\frac{-ma^2}{2E12} + \frac{m}{k462} + \frac{m}{3E1} = C_3$$

$$\frac{a \leq x \leq l}{3} = \frac{mx}{kA62} + \frac{mx^3}{6E12} - \frac{mx^2}{ZE1} - \frac{ma^2x}{ZE12} + \frac{mx}{kA62} + \frac{ma^2}{3E1} + \frac{ma^2}{ZE1}$$

=
$$\frac{mx^{2}}{6ElR} - \frac{mx^{2}}{ZEl} + \frac{ma^{2}x}{3El} + \frac{ma^{2}}{ZEL} + \frac{Note: No kas Teams .: A DUE TO SHEAR = 0}{For Pour Moment.}$$

$$\Theta = \frac{mx^2}{ZEIR} - \frac{mx}{EI} - \frac{ma^2}{ZEIR} + \frac{m}{ka6.R} + \frac{mR}{3EI}$$

* NOTE: SIGN CHOSEN FOR DIRECTION OF M RESULTS IN + A IN THE -Y DIRECTION