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

$$\frac{me^{2}}{ZEIR} + c_{1} = \frac{mc^{4}}{ZEIR} - \frac{mn}{EI} + c_{3}$$

$$c_{1} = \frac{-ma}{EI} + c_{3} = \frac{-ma}{ZEIR} + \frac{ma^{2}}{kA6R} + \frac{mR}{3EI}$$

S=CONSTANT C X=CL

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

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

$$\frac{ma^2}{ZEI} - \frac{m}{k46} - \frac{mR^2}{3EI} = -C_2R$$

$$\frac{ZE1}{2E12} + \frac{M}{M62} + \frac{m2}{3E1} = C_3$$

=
$$\frac{mx^{2}}{6ElR} - \frac{mx^{2}}{ZEl} + \frac{ma^{2}x}{ZElR} + \frac{mex}{3El} + \frac{ma^{2}}{ZEL}$$
 = Note: No kas Teams :: A DUE TO SHEAR = O

$$(9) \Theta = \frac{mx^2}{ZEIR} - \frac{mx}{EI} + \frac{ma^2}{ZEIR} + \frac{m}{kA6R} + \frac{mR}{3EI}$$

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