$$= 0$$

$$\Rightarrow y \Rightarrow \kappa cmp(x) = ?$$

$$F[y], y \in C^{2}[0,1], y(1) = 0$$

 $F[y] = \int dx((y')^{2} - 2xy) \Rightarrow y_{3}xcmp(x) = ?$

$$\Delta F[y] = F[y + sy] - F[y] = \int_{SF} dx (sy'sy' - sxsy) + o(18y11)$$

$$8F[y] = 2 \int_{0}^{1} dx (y' \delta y' - x \delta y) =$$

$$g(0)$$
 He jagnukcupoban \Rightarrow Sy B m. $x=0$ m.d. $\forall \Rightarrow g'(0)=0$

 $y(x) = -\frac{1}{6}x^3 + C_1x + C_2$

 $C_1 = 0$, $C_2 = \frac{1}{6}$

$$\begin{cases} y'' + x = 0 \\ y(1) = 0, y'(0) = 0 \end{cases}$$

$$= 2y' \delta y \int_0^1 - 2 \int_0^1 dx (y'' + x) = 0$$

$$y(1) = 0 \implies y' \delta m. x = 1 \text{ women npullmate } \forall y \omega n$$



$$X = 1$$
 work

 $A^{3\kappa} cmb(x) = -\frac{9}{4}(x_3-1)$

$$X = 1$$
 work