resimps is matria de rigides (1+x) 21(x) v'(x) 0x = ((1+x) \$\phi_{(x)} \phi_{(x)} \ Supergrames i= $3 \Rightarrow \int_{0}^{1} (1+x)(\phi_{3}'(x))^{2} dx = \int_{0}^{\infty} (1+x)\frac{1}{n^{2}} dx + \int_{0}^{\infty} (1+x)(-\frac{1}{n})^{2} dx$ $\int_{0}^{1/3} \frac{(1+x)}{h^{2}} dx + \int_{1/3}^{2/3} \frac{(1+x)}{h^{2}} dx = \frac{1}{h^{2}} \left(\frac{x+x^{2}}{2}\right) = \frac{1}{h^{2}} \left(\frac{2}{3} + \frac{4}{9 \cdot 2}\right) = 8$ i = 2/8 =) $\int_{1/3}^{1/3} \frac{(1+x)}{h^2} dx + \int_{2/3}^{1/3} \frac{(1+x)}{h^2} dx = \frac{1}{h^2} \left(\frac{x+x^2}{2} \right) \Big|_{1/3}^{1/3} \frac{1}{h^2} \left(\frac{1+1}{2} - \frac{1}{3} - \frac{1}{9 \cdot 2} \right) = 10$ (= 1 =) $\int_{2/2}^{2} \frac{(1+x)}{h^2} dx = \frac{1}{h^2} \left(x + \frac{x^2}{2} \right) \Big|_{2/2}^{2} - \frac{1}{h^2} \left(\frac{1+1-2-4}{2} \frac{4}{3} \frac{1}{9.2} \right) = \frac{11}{2}$ Surongamos ahora i ≠ i ⇒ ((1+x) Φ'(x) Φ'(x) dx $\frac{(1+x)(-\frac{1}{h})(\frac{1}{h})}{(\frac{1}{h})} \frac{\partial x}{\partial x} = -\frac{1}{h^2} \left(\frac{x}{x} + \frac{x^2}{2} \right) \frac{2/3}{1/3} = -\frac{1}{h^2} \left(\frac{2}{3} + \frac{4}{9.2} - \frac{1}{3} - \frac{1}{9.2} \right) = -\frac{9}{2}$