Activited 1 Resistencia de una viga S(w)=Kwh2 = Kw(242-w2)=Kw(576-w2) S(y) = K(576-w2) + w(-2w)] = K(576-w2-2w2) = K(576-3w2) K (576-3w2) = 0 576-3w2=0 -> 3w2=576 -> W2=192 -> W= V192=8V3=13.86 S(0) = K(0) (576- 0=)=0 5(24) = 1(24)(576-242) = 0 S(813)= K (853)(576-(853)2) = 307253 K = 48221.75, h= (576-(813) = 816 W=813 h=816 1 Ilumi nación $\alpha = \tan^{-1}(\frac{h}{2})$ $S = \sqrt{S^2 + 4}$ J = K $\frac{h}{h^2 + 4} = K \frac{h}{h^2 + 4} = K \frac{h}{h^2 + 4} = K \frac{h}{h^2 + 4}$ I'(h)= K (h2+4)36 - 3h2(h2+4)42 I'(h)=0 (h2+4)36-3he(h2+4)1/2 -> (h2+4)=3h2 -> 4=2h2->h2=2->h2-5e I(9)=0.096 K 3 Fuerza mínima $F = \cos(\theta) + K_{sin}(\theta) \qquad F(\theta)^{2} \qquad \frac{-K_{W}(-\sin(\theta) + K_{co}(\theta))}{(\cos(\theta) + K_{sin}(\theta))^{2}}$ -sin(B)+Kcos(B)=0 K=0.1 $(-5, n(0) + (0.1) \cos(0) = 0 + \tan(0) = \frac{\cos(0)}{\sin(0)} = 10 + \tan(0) = \frac{\cos(0)}{\sin(0)} = \frac{\cos(0)}{$ E(84.29) = cos(e4.29) + Ksin(84.79) = 5.03 Ng

○ Volumen 2 wa caja

$$V(x)=(13-2x)^2 \times = 169 \times -52 \times^2 + 4x^5$$
 $V'(x)=169-104 \times +12 \times^2 -(-104) \pm \sqrt{-104} \times^2 -41 \times 12 \times (-104) \pm \sqrt{-104} \times^2 -41 \times (-104) \times^2 -41 \times (-10$

X = 3