

D=1010 hg Gronile $\mathcal{L} = 9.8 \frac{m}{3^2}$ 1Sploomont lat J= 7-9 let's build the integral $W = \int_{0}^{25} 8 \cdot 2\sqrt{25-y^2} \cdot dy \cdot 1000 \cdot 9.8 \cdot (7-y)$

 $=9.8 \cdot 16000 \int_{0}^{5} \sqrt{25-9^{2}} \cdot (7-9) dy$

11-1

2) /=3m $p(x) = Q_{x}(4-x) \text{ hg m}^{-1}$ Hero's while's happen -) Print 3m Solution Work = Forcex Depluened - Moss x Gron'le x Deplom

 $W = \int_{0}^{3} 2x (4-x) \cdot 9.8 \cdot (3-x) dx$

= 220.5)

Wind III