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Licensiatura: Arquitectura
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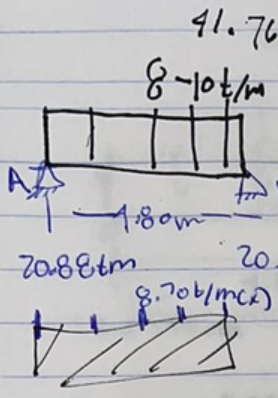
Cuatrimestre: 4to
Materia: Resistencia de materiale

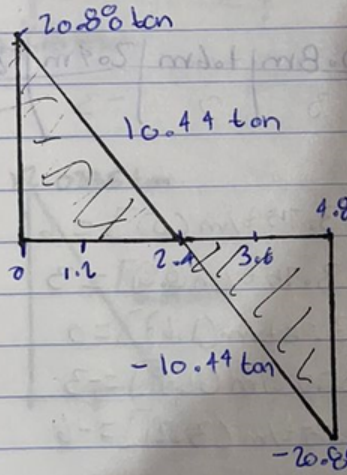


$8.70\ t/m(4.80m) = 41.76\ ton$

$\frac{8.70\ t/m(4.80)}{2} = 20.88\ ton$

$20.88\ ton - [8.70\ t/m(x)] - y = 0$

$V = 20.88\ ton - [8.70\ t/m(x)]$



$20.88\ ton + 4.35\ x^2 + M = 0 = 0$

$M = 20.88\ ton(x) - 4.35\ t/m(x^2)$

X	0	1.2m	2.4m	3.6m	4.8m
V	20.88	10.44	0	-0.44	-20.88

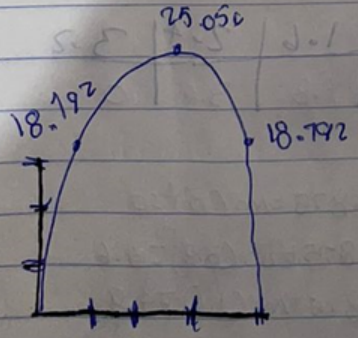
$V = 20.88\ ton - [8.70\ t/m(0)](0) = 20.88$

$= 20.88\ ton - [8.70\ t/m(1.2)] = 10.44$

$= 20.88\ ton - [8.70\ t/m(2.4)] = 0$

$= 20.88\ ton + [8.70\ t/m(3.6)] = -0.44$

$= 20.88\ ton - [8.70\ t/m(4.8)] = -20.88$



X	0	1.2	2.4	3.6m	4.8
V	0	18.792	25.05t	18.792	0

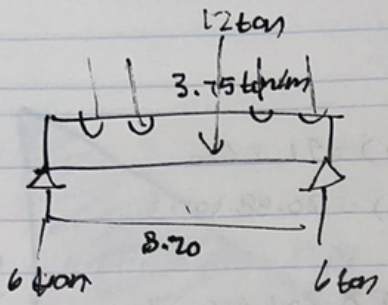
$M = 20.88\ ton.(0) - 4.35\ t/m(0)^2 = 0$

$M = 20.88\ ton(1.2m) - 4.35\ t/m(1.2) = 18.792$

$M = 20.88\ ton(2.4) - 4.35\ t/m(2.4) = 25.05t$

$M = 20.88\ ton(3.6) - 4.35\ t/m(3.6) = 18.792$

$M = 20.88\ ton(4.8 - 4.35\ t/m(4.8) = 0$



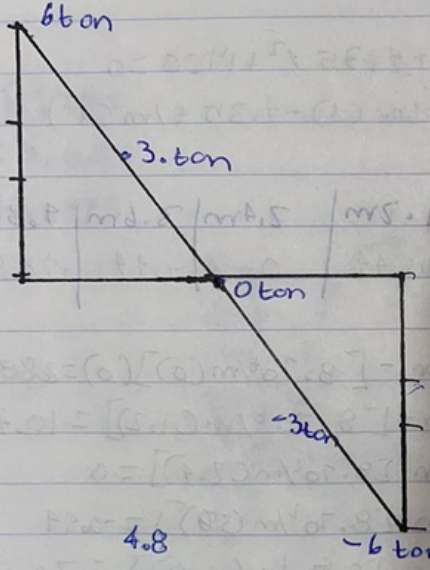
$3.75\,t/m\,(3.20m) = 12\,ton$

$3.75\,t/m\,(3.20) = 6$
2

$6\,ton - [3.75\,ton/m\,(x)]$

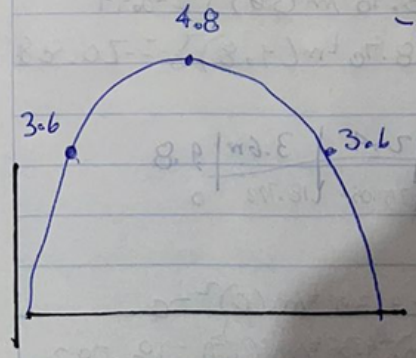
$-6\,ton\,(x) + 1.875\,x^2 + M = 0$

$M = 6\,ton\,(x) - 1.875\,t/m\,(x)^2$



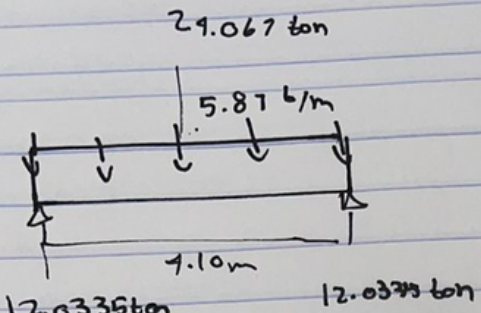
X	0	0.8m	1.6m	2.4m	3.2m
V	6	3	0	-3	-6

$V = 6\,ton - [3.75\,t/m\,(0)] = 6$
$V = 6\,ton - [3.75\,t/m\,(0.8)] = 3$
$V = 6\,ton - [3.75\,t/m\,(1.6)] = 0$
$V = 6\,ton - [3.75\,t/m\,(2.4)] = -3$
$V = 6\,ton - [3.75\,t/m\,(3.2)] = -6$



X	0	0.8	1.6	2.4	3.2
V	0	3.6	4.8	3.6	0

$M = 6\,ton\,(0) - 1.875\,t/m\,(0)^2 = 0$
$M = 6\,ton\,(0.8) - 1.875\,t/m\,(0.8)^2 = 3.6$
$M = 6\,ton\,(1.6) - 1.875\,t/m\,(1.6) = 4.8$
$M = 6\,ton\,(2.4) - 1.875\,t/m\,(2.4) = 3.6$
$M = 6\,ton\,(3.2) - 1.875\,t/m\,(3.2) = 0$

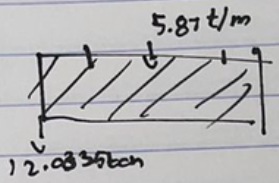


$5.87\ t/m(4.10) = 24.067\ ton$

$5.87\ t/m\left(\frac{4.10m}{2}\right) = 12.0335\ ton$

$12.0335\ ton - [5.87\ t/m(x)] - V = 0$

$V = 12.0335\ ton - [5.87\ t/m(x)]$



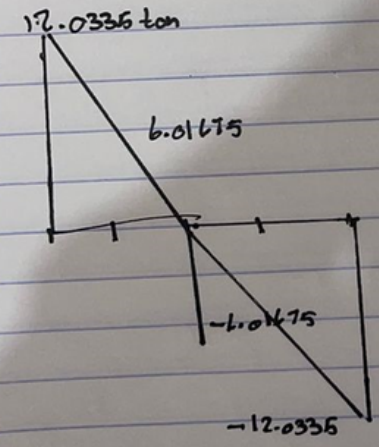
$-12.0335 - [5.87\ t/m(x)(x/2)\ t/m] = 0$

$-12.0335 \cdot (x) + \frac{5.87\ t/m(x^2)}{2} = 0$

$-12.0335 \cdot (x) + 5.87\ t/m(x)^2 = 0$

$-2.0335 \cdot (x) + \frac{5.87\ t/m(x^2)}{2} = 0$

$-M = (12.0335(x) - 2.935\ t/m(x^2))$



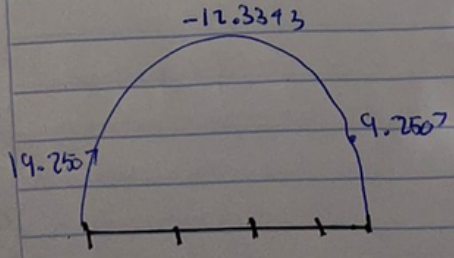
V	1.02	2.05	3.07	4.1
X	6.01675	0	-6.01675	-12.0335

$V = 12.0335\ ton - [5.87\ t/m(1.02)] = 6.01675$

$V = 12.0335\ ton - [5.87\ t/m(2.05)] = 0$

$V = 12.0335\ ton - [5.87\ t/m(3.07)] = -6.01675$

$V = 12.0335\ ton - [5.87\ t/m(4.1)] = -12.0335$



V	1.025	2.05	3.07	4.1
X	24.7719	12.3313	9.2507	0

$M = 12.0335\ ton(1.025) - 2.935\ t/m(1.025) = 24.7719$

$M = 12.0335\ ton(2.05) - 2.935\ t/m(2.05) = 12.3313$

$M = 12.0335\ ton(3.07) - 2.935\ t/m(3.07) = 9.2507$

$M = 12.0335\ ton(4.1) - 2.935\ t/m(4.1) = 0$