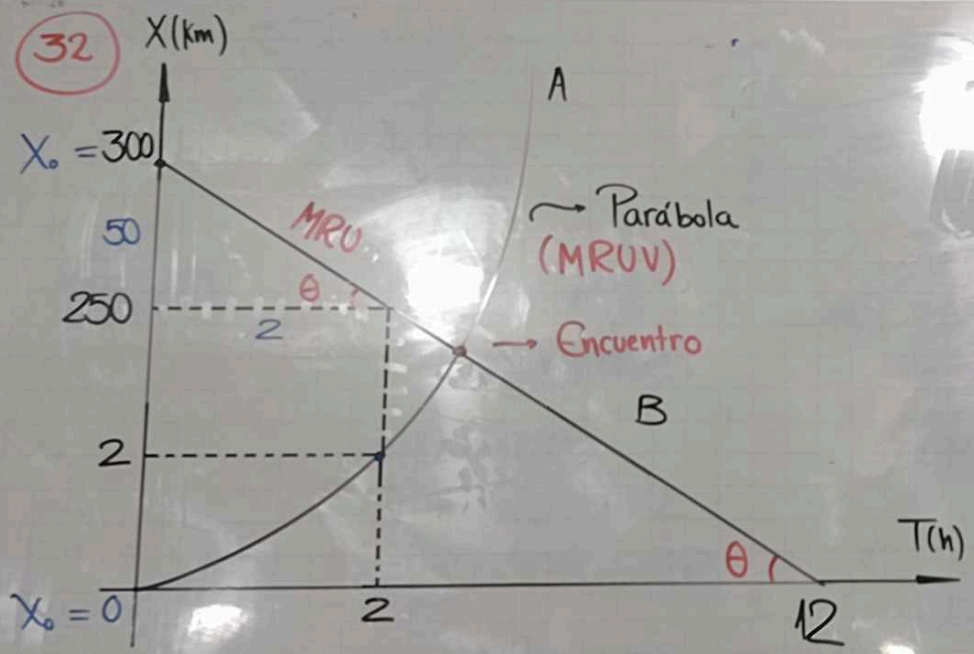
(32)



$Tg\theta = -V$

$V = -25\ m/s$ ✓

$X_0 = 300$ ✓

$X = X_0 + VT$

$X = 300 - 25T$ ✓

$X = X_0 + V_0T + \frac{1}{2}aT^2$ ✓

$X = \frac{1}{2}aT^2$

$2 = \frac{1}{2}a(2)^2$

$a = 1$

Encuentro:

$X_A = X_B$

$\frac{1}{2}aT^2 = 300 - 25T$

$\frac{1}{2}T^2 = 300 - 25T$

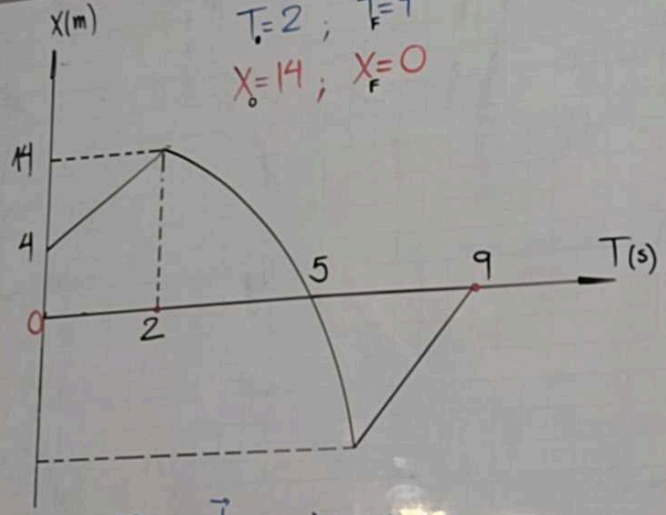
$T^2 = 600 - 50T$

$T^2 + 50T - 600 = 0$

$T \quad +60$

$T \quad -10$

$T = 10h$ ✓



$T_0 = 2$; $T_F = 9$

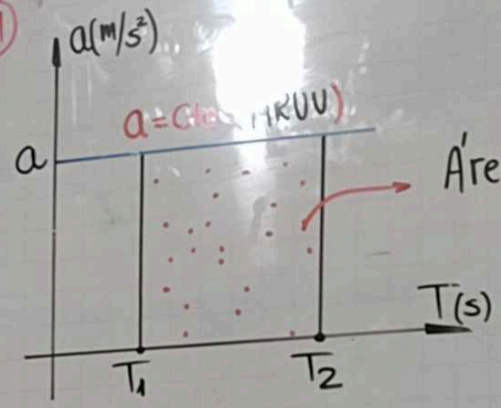
$X_0 = 14$; $X_F = 0$

$$\vec{V}_m = \frac{\vec{d}}{\Delta T} = \frac{X_F - X_0}{T_F - T_0}$$

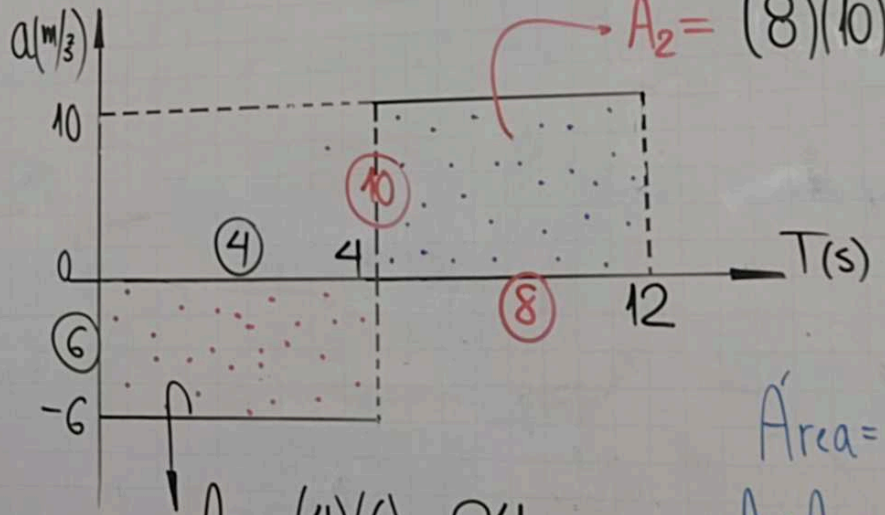
$$\frac{0 - 14}{9 - 2}$$

$$\therefore \vec{V}_m = -2\ m/s$$

29



$$\text{Área} = \Delta\vec{V} = \vec{V}_F - \vec{V}_0$$



$$A_2 = (8)(10) = +80$$

$$A_1 = (4)(6) = -24$$

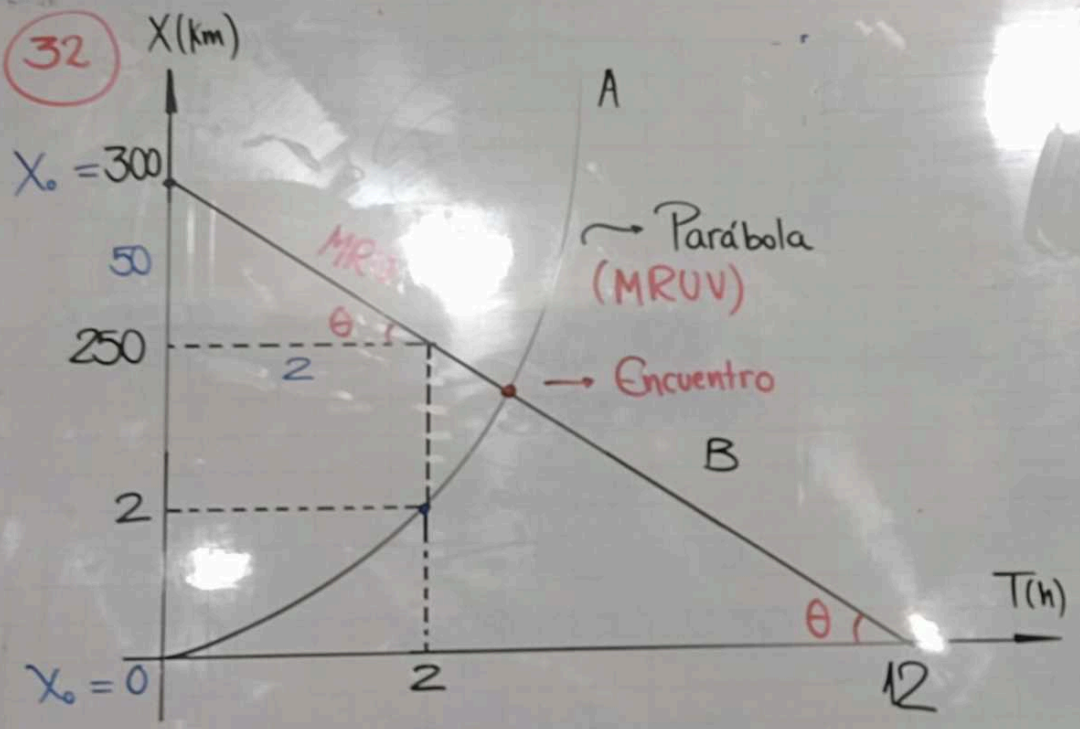
$$\text{Área} = \Delta\vec{V}$$

$$A_1 + A_2 = V_F - V_0$$

$$-24 + 80 = V_F - 6$$

$$\therefore V_F = 62\ m/s$$

(32)



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T +60

T -10

$T = 10h$