

EJERCICIO

Convertir:

- 30 km a m

$$30 \text{ km} \cdot \frac{1000 \text{ m}}{1 \text{ km}} = 30000 \text{ m}$$

- 6 horas a seg

$$6 \text{ h} \cdot \frac{3600 \text{ seg}}{1 \text{ h}} = 21\,600 \text{ seg}$$

- 25km/hor a m/seg

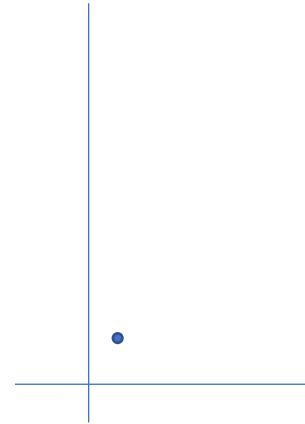
$$25 \frac{\text{km}}{\text{h}} \cdot \frac{1000 \text{ m}}{1 \text{ km}} \cdot \frac{1 \text{ h}}{3600 \text{ seg}} = 6,94 \frac{\text{m}}{\text{seg}}$$

Convertir

- 790 m a km = 0,79 km espacio o distancia

- 5400seg a min = 90min tiempo

- $378 \frac{\text{m}}{\text{seg}}$ a $\frac{\text{km}}{\text{h}}$ = 1360,8 km/h velocidad



FORMULAS

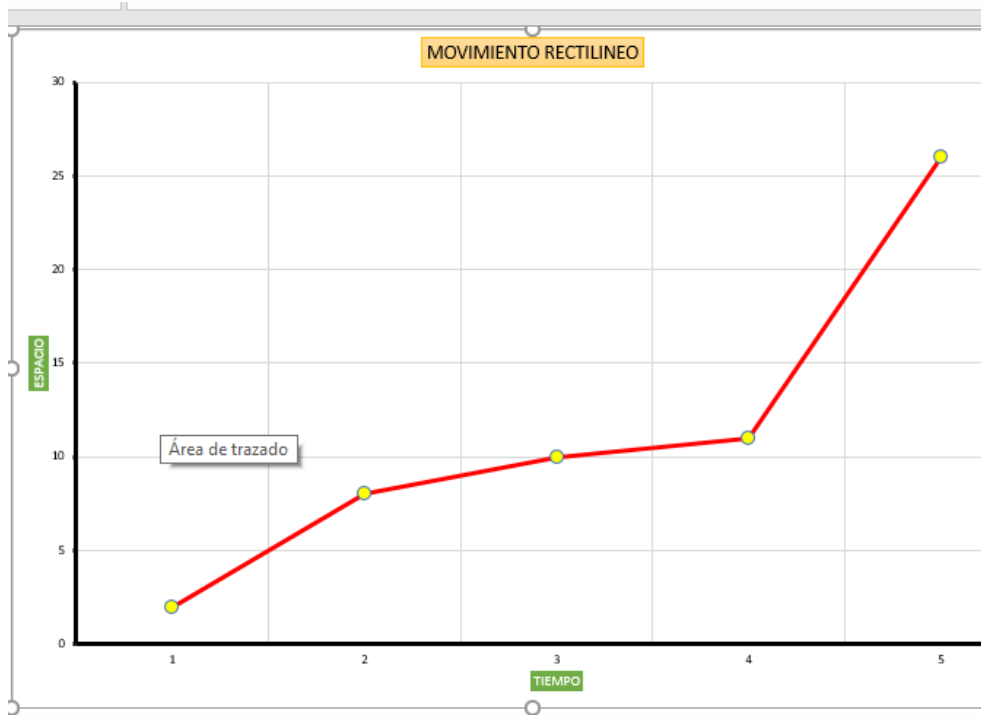
$$V = \frac{S}{t}$$

$$S = V \cdot t$$

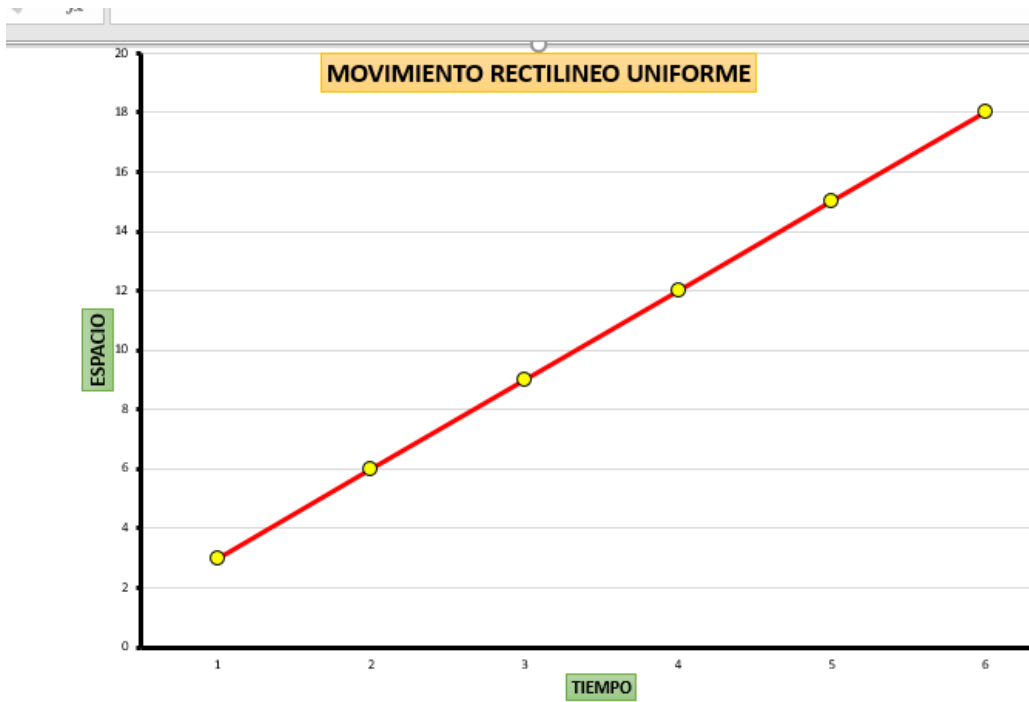
$$t = \frac{S}{V}$$

Hallar la velocidad para la partícula que desarrolla el siguiente movimiento:

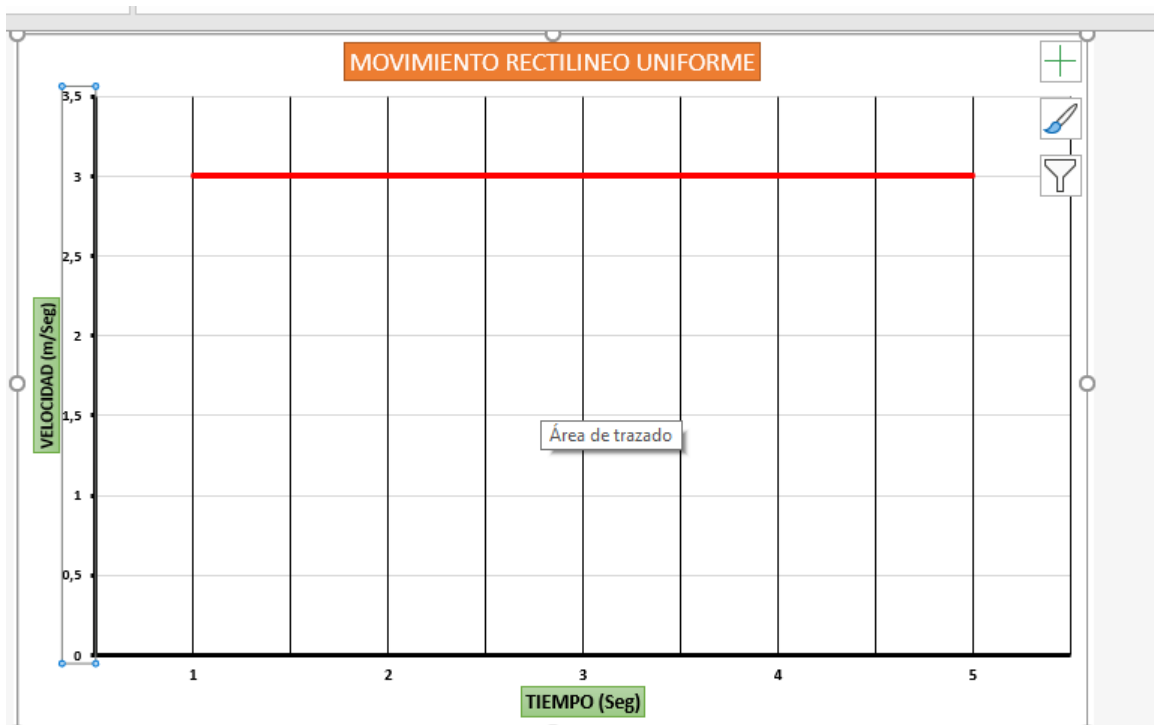
| TIEMPO (seg) | DISTANCIA (m) | VELOCIDAD (m/seg) |
|--------------|---------------|-------------------|
| 1 | 2 | 2 |
| 2 | 8 | 4 |
| 3 | 10 | 3,3 |
| 4 | 11 | 2,75 |
| 5 | 26 | 5,2 |



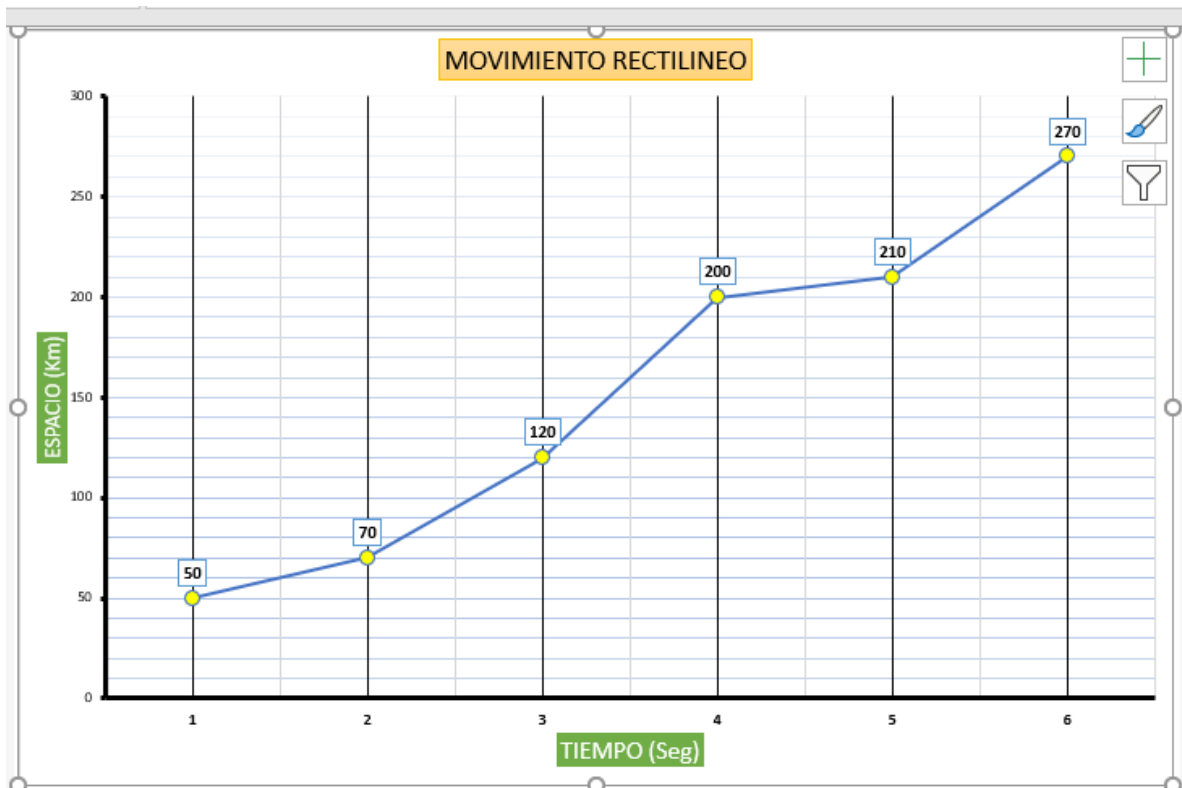
| TIEMPO (seg) | DISTANCIA (m) | VELOCIDAD (m/seg) |
|--------------|---------------|-------------------|
| 1 | 3 | 3 |
| 2 | 6 | 3 |
| 3 | 9 | 3 |
| 4 | 12 | 3 |
| 5 | 15 | 3 |
| 6 | 18 | 3 |



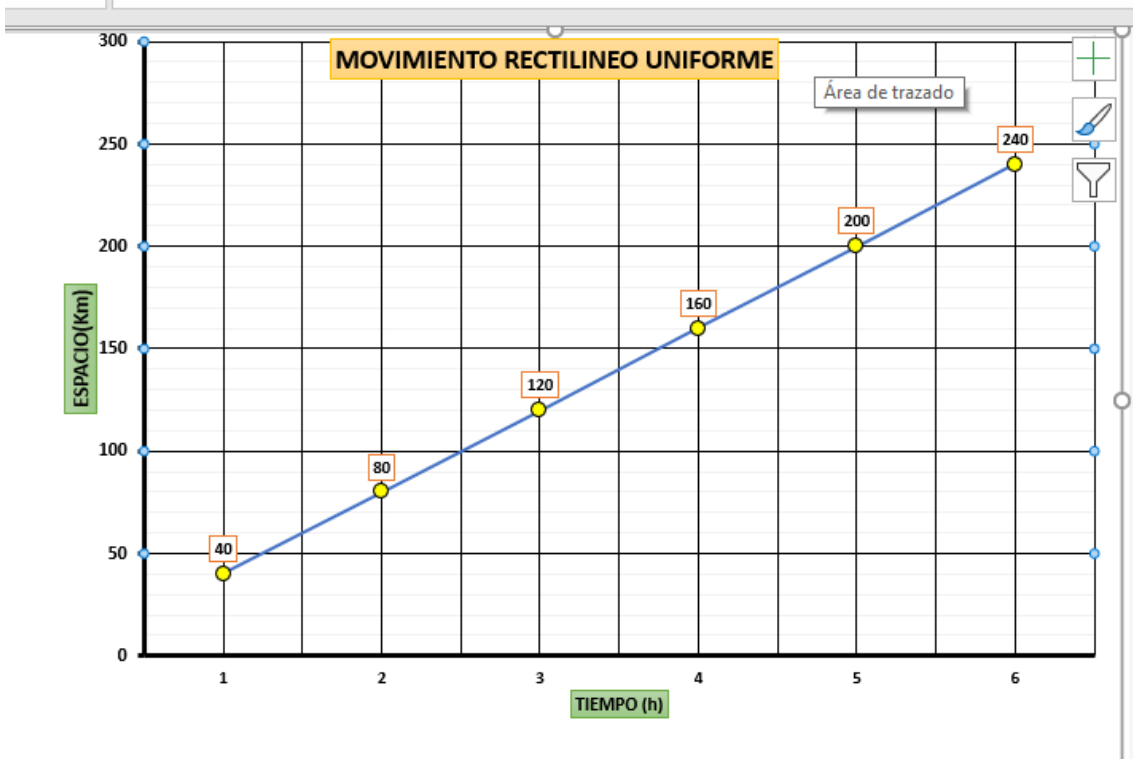
GRAFICA DE LA VELOCIDAD



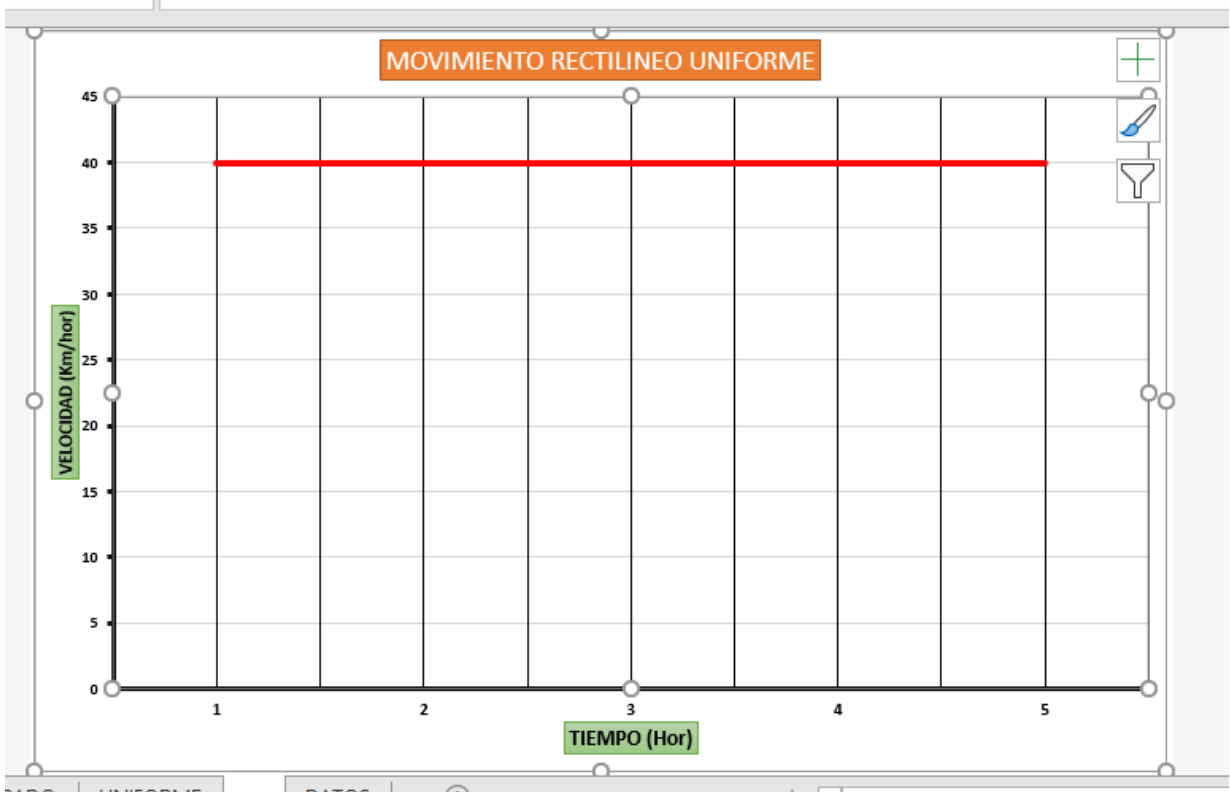
| TIEMPO (HOR) | DISTANCIA (Km) | VELOCIDAD (Km/h) |
|--------------|----------------|------------------|
| 1 | 50 | 50 |
| 2 | 70 | 35 |
| 3 | 120 | 40 |
| 4 | 200 | 50 |
| 5 | 210 | 42 |
| 6 | 270 | 45 |



| TIEMPO (HORA) | DISTANCIA (Km) | VELOCIDAD (Km/h) |
|---------------|----------------|------------------|
| 1 | 40 | 40 |
| 2 | 80 | 40 |
| 3 | 120 | 40 |
| 4 | 160 | 40 |
| 5 | 200 | 40 |
| 6 | 240 | 40 |



GRAFICA DE LA VELOCIDAD



PROBLEMAS

[PROBLEMA DE MOVIMIENTO UNIFORME 1](#)

[PROBLEMA DE MOVIMIENTO UNIFORME 2](#)

[PROBLEMA DE MOVIMIENTO UNIFORME 3](#)