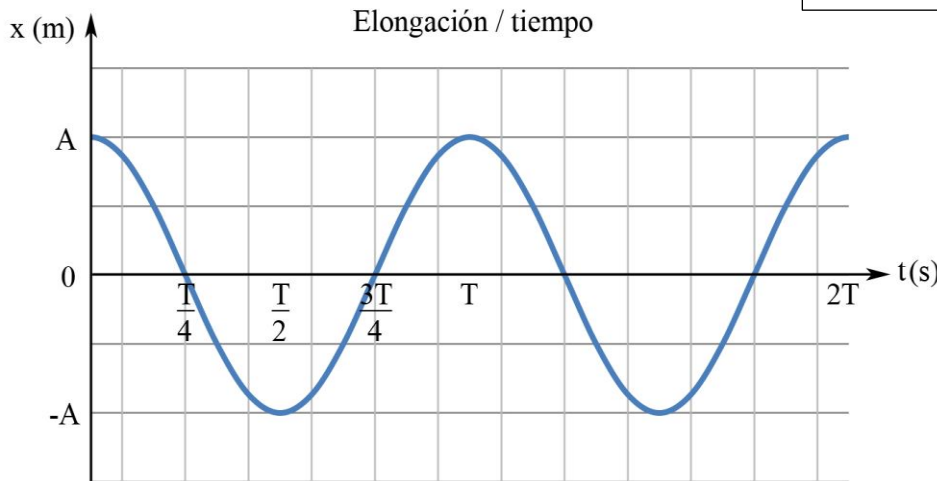


Cinemática del MVAS

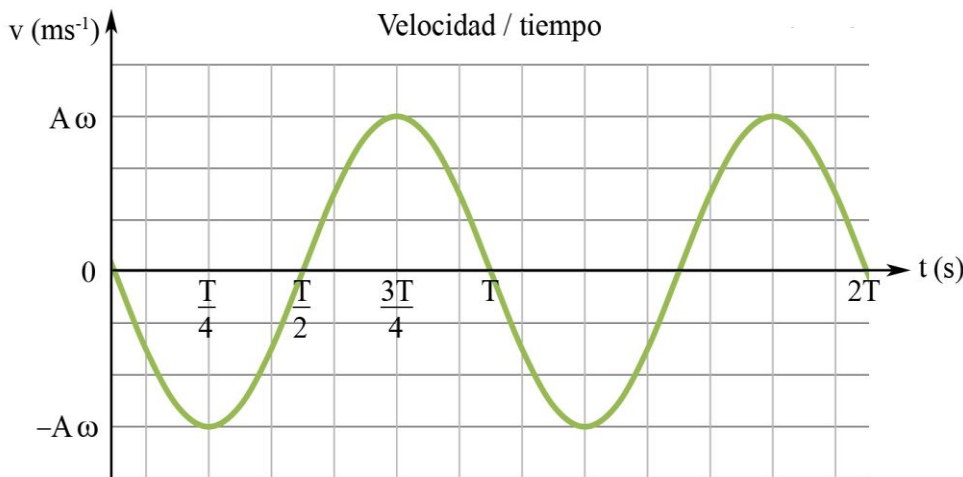
| | | | | | | |
|---------------------------|------------------|---|-----------------|---------------|------------------|--------|
| $\omega = \frac{2\pi}{T}$ | t(s) | 0 | $\frac{T}{4}$ | $\frac{T}{2}$ | $\frac{3T}{4}$ | T |
| | ωt (rad) | 0 | $\frac{\pi}{2}$ | π | $\frac{3\pi}{2}$ | 2π |



$$x = A \cos(\omega t)$$

$$x = A \sin\left(\omega t + \frac{\pi}{2}\right)$$

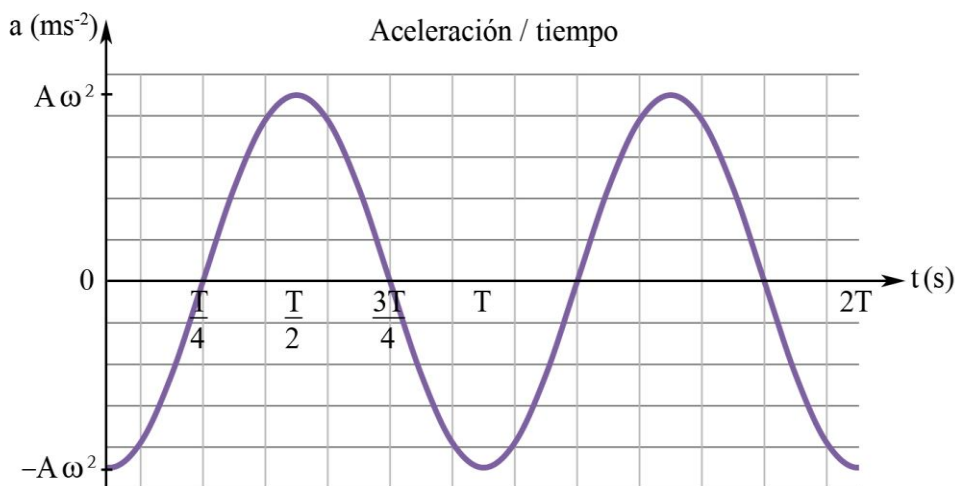
| | | | | | |
|------|---|---------------|---------------|----------------|---|
| t(s) | 0 | $\frac{T}{4}$ | $\frac{T}{2}$ | $\frac{3T}{4}$ | T |
| x(m) | A | 0 | -A | 0 | A |



$$v = -A\omega \sin(\omega t)$$

$$v = A\omega \cos\left(\omega t + \frac{\pi}{2}\right)$$

| | | | | | |
|--------|---|---------------|---------------|----------------|---|
| t(s) | 0 | $\frac{T}{4}$ | $\frac{T}{2}$ | $\frac{3T}{4}$ | T |
| v(m/s) | 0 | -Aω | 0 | Aω | 0 |



$$a = -A\omega^2 \cos(\omega t)$$

$$a = -A\omega^2 \sin\left(\omega t + \frac{\pi}{2}\right)$$

| | | | | | |
|---------|------|---------------|---------------|----------------|------|
| t(s) | 0 | $\frac{T}{4}$ | $\frac{T}{2}$ | $\frac{3T}{4}$ | T |
| a(m/s²) | -Aω² | 0 | Aω² | 0 | -Aω² |