

Exemples bàsics de Solucions de P.V.F. per $\boxed{\Sigma'' = \mu \Sigma}$

CONDICIÓ FRONTERA	VAPS	FUPS
$\Sigma(0) = \Sigma(L) = 0$	$\mu_m = -\left(\frac{m\pi}{L}\right)^2, m \geq 1$	$\Sigma_m(x) = \sin\left(\frac{m\pi x}{L}\right)$
$\Sigma'(0) = \Sigma'(L) = 0$	$\mu_m = -\left(\frac{m\pi}{L}\right)^2, m \geq 0$	$\Sigma_m(x) = \cos\left(\frac{m\pi x}{L}\right)$
$\Sigma(0) = \Sigma'(L) = 0$	$\mu_m = -\left(m + \frac{1}{2}\right)^2 \frac{\pi^2}{L^2}, m \geq 0$	$\Sigma_m(x) = \sin\left(\frac{(m + \frac{1}{2})\pi x}{L}\right)$
$\Sigma'(0) = \Sigma(L) = 0$	$\mu_m = -\left(m + \frac{1}{2}\right)^2 \frac{\pi^2}{L^2}, m \geq 0$	$\Sigma_m(x) = \cos\left(\frac{(m + \frac{1}{2})\pi x}{L}\right)$
$\Sigma(-L) = \Sigma(L)$	$\{\mu_0 = 0 \text{ Vap simple}\}$	$\{\Sigma_0(x) = 1\}$
$\Sigma'(-L) = \Sigma'(L)$	$\{\mu_m = -\left(\frac{m\pi}{L}\right)^2 \text{ Vap's dobles}\}$	$\left\{\begin{aligned} \Sigma_m(x) &= \cos\left(\frac{m\pi x}{L}\right) \\ \Sigma_m(x) &= \sin\left(\frac{m\pi x}{L}\right) \end{aligned}\right\}$