Week 10 - Monday Monday, March 29, 2021 2:03 PM	Rance
	Review for midten # 2
	Miltem: both computing + written
Covenia	: PDEs, ODEs, Integration
PDE: equati	ous: $\partial_t f(t, x, y, z,) = A(f, \partial_x f, \partial_y f, \partial_z f,, t, x, y, z,)$
	More than I time-dern: $\partial_t^2 f = A \Rightarrow \begin{cases} \partial_t f = g \\ \partial_t g = A \end{cases}$
ODE",	$\partial_t f(t) = A(f, t)$ (no $\partial_x f, e_{tc}, o_{nl_y} 1 - \partial_{rn_o}$)
Integrals:	$\partial_{\xi} f(\xi) = A(\xi)$
Integrals:	egoval function 15 generally "best"
	egyvad function 15 generally "best" a other routines may be more convenent, or problem-specific, but quad usually works.
	o includes routines for harding 25's
C.O.	Romberg Megration: Sample function at many Merval 5, 365
	· Combine answers to improve accuracy,
	elimate error. n Extrapolate to st >0 (.m.+
ODEs:	301 ve IVP - good, generic Function, for IVPs
	Solve-bup-5.milar, but for boundary value problems
	eg. $\partial_x^2 f = \alpha (1-f^2) f' - f$

