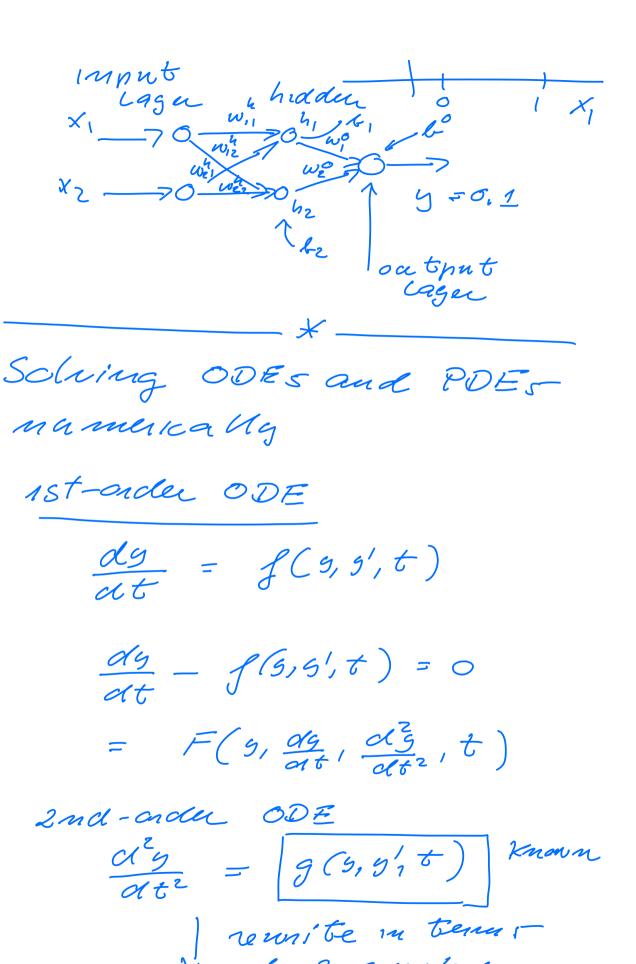
## Lecture Jan 31,2022

$\times 0R$ $\times_1 0$ $\times_2 0$	OR, AND 09	X <sub>1</sub> X <sub>2</sub> 0 0 0 1 1 0 1 1	
XOR	C 6	x <sub>2</sub>	$\frac{1}{2} = \frac{1}{2} = \frac{1}$



$$a(5,5/6) = \frac{d^25}{a6^2}$$

$$a(5,5/6) = \frac{d^25}{a6^2}$$

$$a' = \frac{dv}{a6} \wedge v = \frac{d^25}{a66}$$

$$Discretification
$$5 = \frac{6f_{mac}}{n} \qquad 5 = \frac{6f_{mac}}{n}$$

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$$f(t \pm st) = g(t) \pm stg(t)$$

$$+ st^{3} g''(t)$$

$$+ st^{3} g''(t)$$

$$= 1 + o(st^{3})$$

Discretize and leave out
$$o(st^{2}) = 7 \text{ Euler's method}$$

$$g(t \pm st) = 9i \pm 1 = g(ti \pm st)$$

$$gi + 1 = gi + stgi$$

$$= gi + stgi$$

$$= gi + stgi$$

$$= vi + stgi$$

$$= stgi$$

Discretized domain (1st crosse)

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$$t \in \left\{ \begin{array}{l} b_0, b_1, --b_n \\ \end{array} \right\}$$

$$g' \in \left\{ \begin{array}{l} y_0', y_1' - -y_n \\ \end{array} \right\}$$

$$\frac{dg}{dt} = \left\{ \begin{array}{l} (g_1 g'_1 t) \\ \end{array} \right\} = F(g_1 g'_1 t) = 0$$

$$Discretize at version$$

$$F(g_1', g'_1', b_1') = 0$$

$$Construct = trial solution$$

$$g_t(t) = h_1(t) + h_2(t, N(t, \epsilon))$$

$$satisfies$$

$$nni tial$$

$$conduction$$

$$Nemal$$

$$no$$

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Cost/loss function depends

on  $\frac{dg}{dt} - f(y, y', t)$  = C(y, y', t) = C(y, y', t) y - y + weights C(yt, yt, t, t)numac
networks