PINNS W/ Polynomial Reg.
$y'' = -1 \rightarrow y = -x^2/2 + c_1x + c_2$
¥ y(0)=0
$\forall y(0)=0$ $\forall y(0)=0$ $\forall y(0)=0$ $\forall y(0)=0$ $\forall y(0)=0$ $\forall y(0)=0$
DOKAY, Now lets try to easy PINAL like without it and it
M(X,W) = W3+W2X+W1X2 []> Expressive enough for our medeles • Loss "lesst squares":
Lass less squares ;
Nok M"(w) = 2w, & Lobel = About + Admain & take e point
HOLD = 22WH -212 RUS +2028
Lbel := (2m1+1)2+(w3-w2+w1)2+(w3+w2+w1)2
donein
organia Llots $= -1/2$, $w_2 = 0$, $w_3 = 1/2$ w_1, w_2, w_3 Thus, $y_{PINN} := 0.5(1-x^2)$
2 2 4 5 11 2 2 2 2 1 1 2 2 2 2 1 1 1 2 2 2 2
But is it enough to have a function that is twice diff. for y"
of any type?
What happers if pu have more complex M?
Lo apposely the minimizer of your flake loss does not satisfy the point constant in the middle
the point constraint in the middle
La you need regularization of large amounts to get
la you need regularization of large anouts to get rezervable solutions