PADAMAK!

E(WID):
$$\frac{1}{2}\sum_{i=1}^{N}(y^{(i)}-\phi(x^{(i)})^Tw)^2$$

into yielmo s minim, egy inglednost.

In $A(\overline{\omega}|D)$: $a_1 p(D)\overline{\omega}$ and $a_1 T_1 p(x^{(i)})$ and $a_1 T_2 p(x^{(i)})$ and $a_1 T_1 p(x^{(i)})$ and $a_1 T_2 p(x^{(i)})$ and $a_1 T_$

$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} \overrightarrow{w} - \overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} \overrightarrow{\nabla} - \overrightarrow{\nabla} \overrightarrow{\nabla} \overrightarrow{w} + \overrightarrow{\nabla} \overrightarrow{\nabla} \overrightarrow{\nabla} \right) \right)$$

$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} \overrightarrow{w} - 2 y^T \overrightarrow{\nabla} \overrightarrow{w} + y^T \overrightarrow{\nabla} \right) \right)$$

$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} (\overrightarrow{\nabla} \overrightarrow{\nabla} + (\cancel{\nabla} \overrightarrow{\nabla} \overrightarrow{\nabla})^T) - 2 y^T \overrightarrow{\nabla} \right)$$

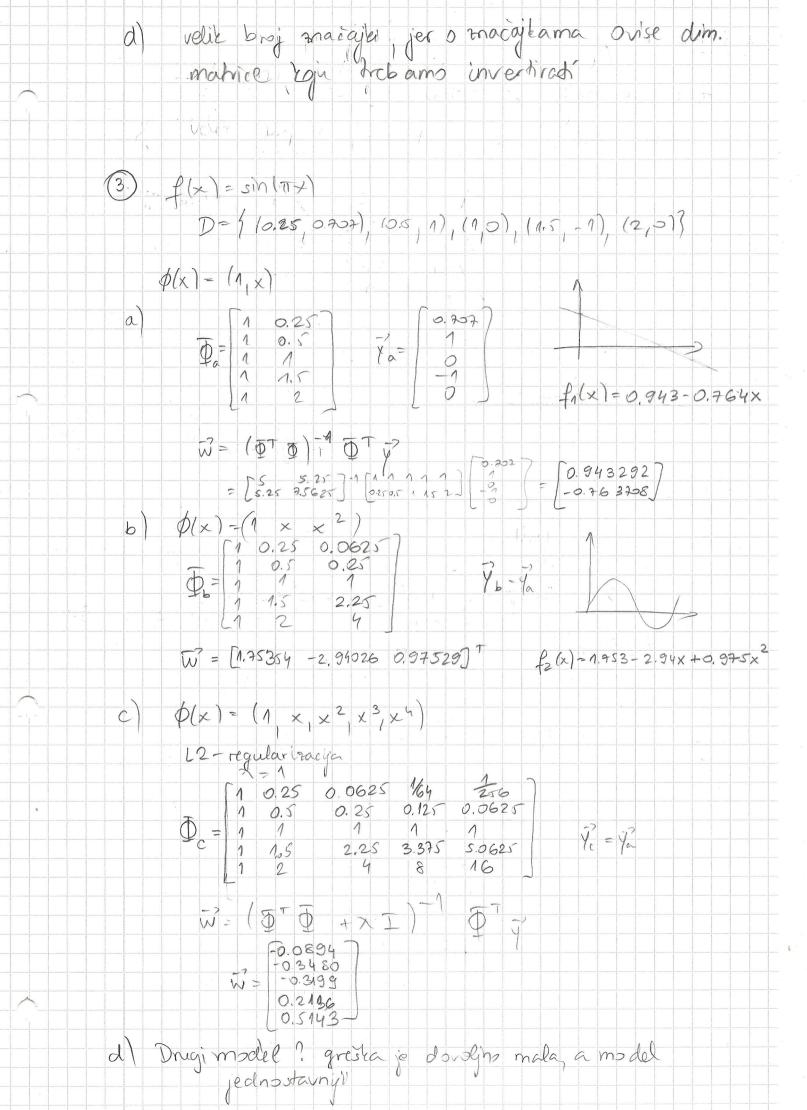
$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} (\overrightarrow{\nabla} \overrightarrow{\nabla} - y^T \overrightarrow{\nabla} = 0) \right)$$

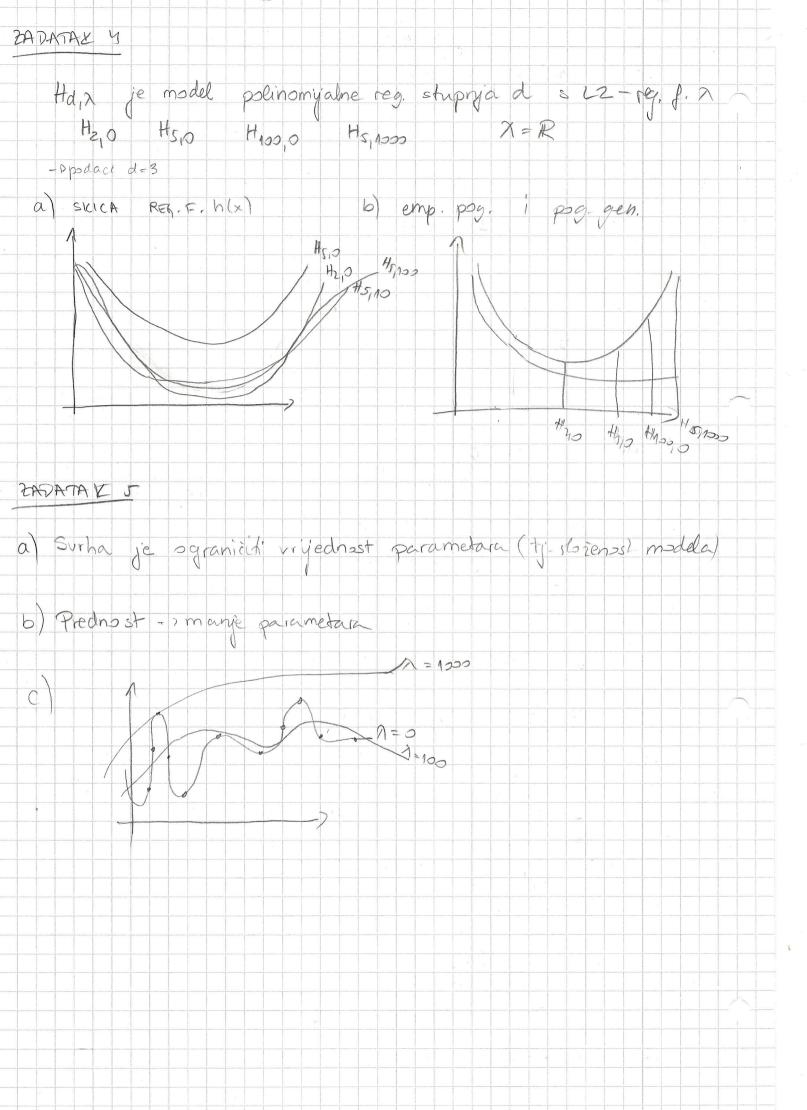
$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} \overrightarrow{\nabla} \right)$$

$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} \cancel{\nabla} (\overrightarrow{\nabla} \overrightarrow{\nabla} - y^T) \right)$$

$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} (\overrightarrow{\nabla} \overrightarrow{\nabla} - y^T) \right)$$

$$= \frac{1}{2} \left(\overrightarrow{w} \overrightarrow{\nabla} \overrightarrow{\nabla} (\overrightarrow{\nabla} \overrightarrow{w} + y^T \overrightarrow{\nabla} + y^T \overrightarrow{w} + y^T$$





D Y ATA GAS p:Rn->Rm n m, L2 regularizacija 1) nebitue macajte ce imati male parametro odnomo parametre pritagnute na nulu 2) relike rætlike izmedn paramotera Neregularizariani model bio bi prenaucen ti previse la se prilagodio primjerima ZADATA 4 7a) p(D) = P(W) = T N(h(x(i)) B-1) N(0, 2-7]) b) p(w) = y(0) = 11 = $11 + 12\pi \cdot (\pi x^2) \cdot y^2 = 11$ $= \left(\frac{2\pi}{2\pi}\right)^{\frac{1}{2}} \cdot \exp\left(-\frac{\vec{w} \cdot \vec{v} \cdot \vec{x}}{2}\right)$ c) argmax (P(D)W) p(W)) = ln(p(p)) + lnp(m)= en (27) 2 2 (vi)-h(xi/v) B) + en (27) $-\frac{1}{2}\sqrt{\frac{1}{2}\sqrt{\frac{1}{2}}\sqrt{\frac{1}{$