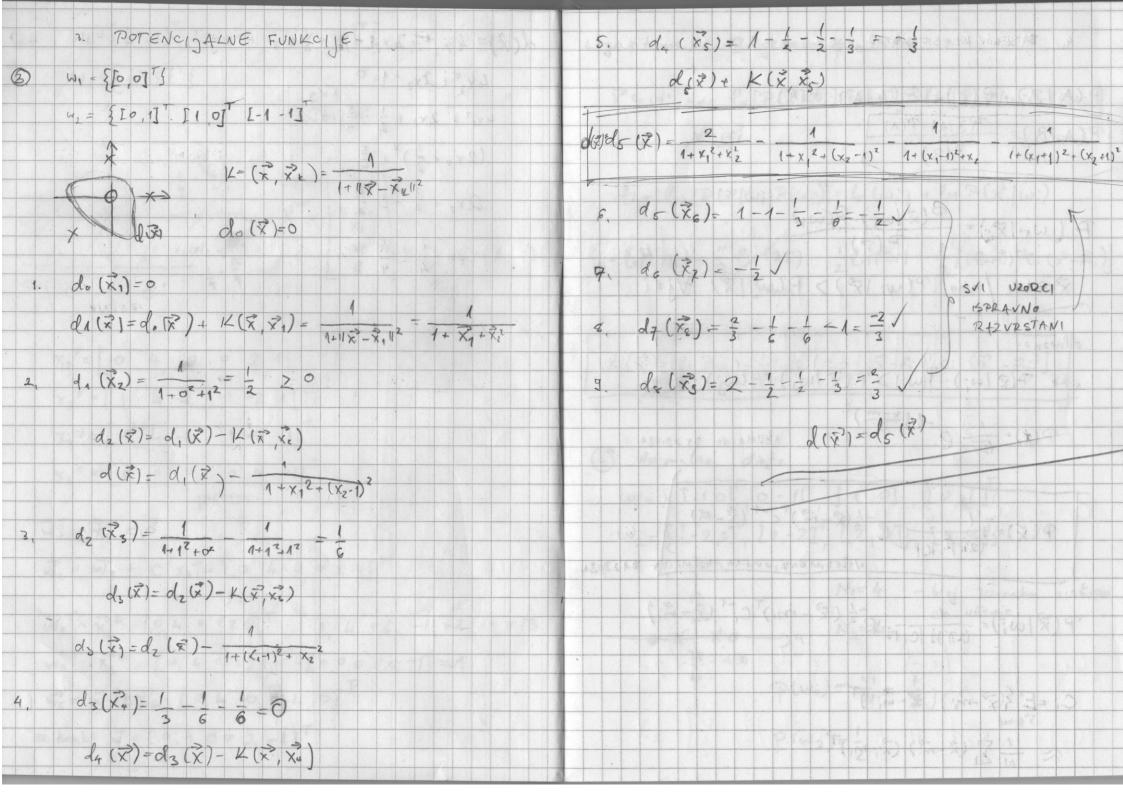


 $d(\vec{x}) = 4 \times_2^2 + 2 \times_2 - 1$ 4x2 + 2x2 - 1=0 4x22 + 2x2 + 1 - 5 + 0 (2×2+ =) = = = 2x2 - 2 - + 6



BA YESOV ILLA SIETKATOR Logaritains le Bayeso vo fravilo P(A13). P(3) = P(314). P(A) REW: AZO PA [P(XIW;)-P(wi)]>(n[P(XIW;)-P(wi)] P(A/B) = P(3/A).P(A) d: - ln[P(x/wi)P(wi)] = ln(wi) + ln P(x/wi) P(w, 1x) = P(x/w,). P(w,) = $\ln^{2}(w_{i}) - \frac{n}{2} \ln^{2}(2\pi) - \frac{1}{2} \ln^{2}(1 - \frac{1}{2} L(x_{-m_{i}})^{T} C_{i}(x_{-m_{i}})^{T})$ x ew; / ako P(w; /x) > P(wj/x) +j #i odnosno. di(\$) = en P(wi) - 1/2(n/cil - 1/2 [(\$ -\$ = i)] a LO P(x 1w;) P(w) > P(x 1w) P(uj) + j = i P(X) = V2TT 0 NORMALNA 24 2010BA (4) Normalna distr. W1- E I-10] [0-1] [1-0] [0,1-1] $P(\vec{x}) = \frac{1}{(2\pi)^{\frac{1}{2}} |C|^{\frac{1}{2}}} e^{-\frac{1}{2}(\vec{x} - \vec{m})^{T} c^{-1}(\vec{x} - \vec{m})}$ W2= \$[-2,0], [0,-2], [2,0], [0,2]] NISEDIMENZIONALNA NORMALUA RAZDÓBA N₁= 4 - broj vzoraka u skupu za včenje

N₂= 4 $P(\vec{x}|w_i) = \frac{1}{(2\pi)^{\frac{1}{2}}|c_i|^{\frac{1}{2}}} e^{-\frac{1}{2}} (\vec{x} - m_i)^T c_i^{-1} (\vec{x} - \vec{m}_i)$ $P(w_i) = \frac{V_i}{V} = \frac{1}{2}$ C:=E {(x-m.)(x-m.)T ~ 1 (x m;) (x m;) T

d,-d2=0 1 2 lon | C11 - 2 L (x - mi) T C1 (x - m) 1 2 lon | C2 | + 2 [1x - m2 C, (x - m) - 1 ln 1 - 1 x - 2 I 2 + 1 ln 4 + 1 x 1 I x = 0 0,693- \$ \$ +0,693+ 7 \$ 7 7 =0 1,386-3/4 xTx=0 1,386-3 (x12+x2)=0 x 2 + x 2 = 1,848 LroZnica ~2=1.848 r= 1,36/