2. take derivative w, it should be same as the separable case, the
parameter Eand B have no effect on derivate of w
V_L=w-\(\frac{m}{2}\argam_{1=1}^{m}\argam_{1}^{m}\times_{1
take derivative to b, same as separable case. $\nabla_{b}L = -\sum_{i=1}^{m} a_i y_i = 0 = \sum_{i=1}^{m} a_i y_i = 0$ (3)
take derivative to & new parameter, but we can just simply take
derivative to it
マレニスC-デai-デBi=0=> C=ai+Bi (4)
For a:
Yi a; (y:(wTx+b)-1+E;)=0=> a;=0 or y; (wTx; +5)=1-E; 5)
For B:
$\forall i \in \mathcal{B}; \mathcal{E}_i = 0 = 7 \mathcal{B}; = 0 \text{ or } \mathcal{E}_i = 0 (6)$

when d=3 with x, x'ER3 K (x, x') = ((x, x'>+c) -(x, x, + x2x2 + c) (x, x, + x2x2+c) =(X, X, +X, X, +2x, X, X, X, X) +2(0x, X, +2(X, X, 1) + c)(x,x,+x2x2+c) = xixi+ xixi xxxi+ (xixi+ xixi+ xixi+ xixi+ xixi+ CX2X2+2X1-X12X2X2+2X2X6XXX/+2CX1X1X2X6+ 2 (Xi Xi + 2 C X, X ; X2 X + 2 C X, X | + 2 C X , X | X2 X + 2 (1/2 x/2 + 2 c2 x/2 + c2 x/x/1 + c2 x/x/1 + c3 combine these polynomial function = 1/1/3 + x3x13 + 3 c x12x12 + 3 c x2x12 + 3 c x2x12 + 3 c x2x1x12 + 3 c x2x12 + 3 c x 6 CX1X1x2x1 +3C2X1X1 +3 C2X2X1+c3 splitting ... =[X1, X2, J3C X1, J3C X2, #J3XLX, J3X, X2, 1680 X2, 43 X1, 43 X2, C=] JELX12 4XXX So, \$(X)=[X13, X2 JBCX13, JBCX2, JBX2X1, JBX1X2JBCX1X2, GJBX1, GJBX2, C=] 13x: X' JECXIX HONN maps a 2-D data point x into 10-D space as QUX) 4J3X1