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Y.	Date://
	O(a) 2 1 A/A Ad K(CXXX)
	O(a) = Ea; -1 EE xix tity K (Xi, Xx)
	A A A A A A A A A A A A A A A A A A A
	Such that $\alpha_i \geq 0$ & $\beta \alpha_i t_i = 0$
	A DE LA PARTE SERVICE DE LA PROPERTIE DE LA PORTIE DE LA PROPERTIE DE LA PROPERTIE DE LA PROPERTIE DE LA PORTIE DEPURIT DE LA PORTIE DE LA PORTI
15	(9/2) = 62: -1 /1/11 =A
	O(d) = 2d; -1 V = (A)
	Now O(d) = d(V,d, Vo)
5,89	Now O(d) = d(V,d,Vo)
	J(p) > 2 (p, 2, B) based on the Constraints So max m value of 2(p, 2, B) = f(p)
	Sp max m value of 2(p,2,B) = f(p)
	Put in (A)
	1 111012 = 621 - 1 11VII
	2 2
	11/11/2 - 6):
	11V11 - 29)
	or 1 = 52; where V = 1 (derived Earlier)
70	1.2
Anso2)	Objective: Min IVIV + 10232
11137	2 2 1 01
	$(1 + 1) (\sqrt{10}(x_1) + \sqrt{10}) > 1 - 3$
7 S	$(x_1, y_1) = (1 - 3 - 1)(y_1)(x_1) + (y_2) < 0$
	$q_1(0) = 1$ $q_2(0) = 0$
	where g(LO) = 0
	1. I. 1. 6. 2. 61. 1. 2. +. 6. Jely 2. 1. 1
	d(V, x, Vo, U) = 1 (2 3, +2x, (1-3,-1, (V) (Ki))
No.	E B ag B
1 00	Here d; >0, g; (v) <0 =4;>0
	Mac Also, Alexander
	11 (61.4. W(v.) - ().
	dd = V - 29; [] (V) - V
	DV V= SditiQ(Vi)
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, 4, x,	
1.48.	= \(\frac{1}{2} \) -1 \(\text{V} \) \(\text{V} \)
	where d:>0. 2 2 d;t; = 0.
	We also proved that it's a band method by expressing
	We also proved that it's a bond method by expressing $\phi(Y_i) \times \phi(Y_k) = k(X_i, X_K)$
* 0	$\Delta = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right)$
Ans · 3.	Objective: \(\lambda l(a; ti) + R(w\tau)
	Here aj= w P(Zi) -0
	Representar Theorem
	$\partial E = 2 l'(a; t;) \times \phi(x;) + 2RW = 0$
\	1-11-2111 - 1-12-12-12-12-12-12-12-12-12-12-12-12-12
.[$\partial_{\infty} w = - \underline{\mathcal{L}} (a_i, t_i) \times \phi(x_i)$
	2R
	Here us is the optimal solution can also be
3	Here w is the optimal solution can also be written as [w= 500 p(x4)] or w= For -(2)
	List Tool C
	Where di = - I l'(a; ti)
	2R
	or 0 = -1 & (Dw, t) (From 6)
Entres.	or d 1 l'(tx t x t) (From 6)
	2R (Frame)
	or 2 1 e (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$)
ĖA	2R > Kernel form
- X	Prediction = w P(z)
	- 20, Q(Nf) x D(2)
2 W/27 C	Prediction - 5d; K(X,Z)
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Ans 04	We know that the Margaral lepshhood is given by Grangeian Process L= N(t10,C)
-	L= N(t10,C)
	Where (= Oo K(Xn, Xm) + B-J Hyperparameter of prior
	Hyperparameter of prior
	Now G= Ook (Xn, Xm) <u>d(n = K (Xn, Xm) - ()</u>
	$\frac{\partial C_{N} = K(X_{n}, X_{m}) - (1)}{\partial C_{N}}$
3/	1
	Mso $(N^{-1} = 1 \times (X_n, X_m) - 2)$
	06 J
	En Ne Anow P(t 0) = ((v)) = xexp S-(v) (t-0)26
	(47) 12
	0 lmp(+10) = -11m1(1-N1-2+ 11 ⁷ /-1/
	« log P (t 0) = -1 log CN - N log 21 + -1 t " (√'t
	∂ log p(t 0) = -1 Tr((n-1) (n) + 1+ Tr(-1) (n (n-1) t) ∂0, 2 00;
	∂O_{i} ∂O_{i} ∂O_{i} ∂O_{i}
	[Using Egns 6.69 & 6.70 from TOB]
	= -1Tr (1 K (Olp, am) x K(an, am))
	2 (%)
	+ Itx] x (2n,2m) xx(an,2m) x) x Can, xm) x +
	2 00 00
	[Using () A (b)
	= = IT/ I D) + I t x 1 x K (2n, 2m) x t
	$2 (00) 2 \theta_0^2$
	= -1 <u> </u>
	2100 202
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