*K*(**xi**,**xj**)=(1 + **xiTxj**)2

*K*(**xi**,**xj**)=(1 + **xiTxj**)2,= 1+ *xi12xj12 +* 2 *xi1xj1xi2xj2+ xi22xj22* + 2*xi1xj1 +* 2*xi2xj2=*

*=* [1 *xi12 √*2 *xi1xi2  xi22 √*2*xi1 √*2*xi2*]**T** [1 *xj12 √*2 *xj1xj2  xj22 √*2*xj1 √*2*xj2*]

= φ(**xi**)**T**φ(**xj**) where φ(**x**) = [1 *x12 √*2 *x1x2  x22 √*2*x1 √*2*x2*]

A = (1,3)

B = (2,2)

C = (3,5)

1. Với kernel function là *K*(**xi**,**xj**)=(1 + **xiTxj**)2

A’ =

B’ =

C’ =

A’.B’ =

B’.C’ =

A’.C’ =

1. Cùng câu hỏi, nhưng *K*(**xi**,**xj**)=(1 + **xiTxj**)3