Jae Park

- Jac 10	
#1.	let x = <x, ,="" x2=""></x,>
	ŷ = < y, y >>.
	x-9= <x,-y, ,="" xz-y-=""></x,-y,>
	$ \hat{x} - \hat{y} = \sqrt{(x_1 - y_1)^2 + (x_2 - y_2)^2}$
	$\ \hat{x} - \hat{y}\ ^2 = (x_1 - y_1)^2 + (x_2 - y_2)^2$
	Prove (x,-y,)"+(x2-y2)"= 2(1-cos A).
_	X,2-2x, y, +y, + x22-2x, y2+y22 = 2(1-cosa)
	Use identity $\cos\theta = \hat{x} \cdot \hat{j}$
	= < X,, X2> · < Y,, Y2>
	$= \times_{1} \times_{1} \times_{2} \times_{2} \times_{2}$
	> x, 2-2x, y, +y, 2+x, 2-2x, y, +y, 2
	: X, 2+4, 2+x2+42 - 2 (X, 4, +x, 4)
2	X,2+4,2+4,2-2 (coso)
	(X,2+x22) + (Y,2+422) -2 cost
	1 x112+119112-2005D
	12 + 12 - 2 ws 0
	=2(1-658),