



8)	(1, 1/27 = 4(05 \frac{1}{2} 2> + e (8 \frac{1}{2} 2> 08 \fra
	COS= (05= + e (02-01) Sin= sin= = (n, 1nz>
	1(N1/27)2=(cos=cos=+e(0=-0)sin=sin=)() " Cuplx Cova.
	APPY evere formour
	1 cos = cos= + (cos(az-01)+ isin(az-a))sing sin 0/2 2
	DISTIBUTE
	10052050= + cos(02-01) sin= sin= + isi 492-01) sin= sin= 12
	$a + bi (a+bi)^2 = a^2 + 5^\circ$
	(08 9 (082+ COS CO2-9,) Sing sing) + (Sin(02-0,) Sing Sing)
	cos220522 + 2 cos (Qe-Q,) Singsing cos 2 cos2 + cos2(Q2-Q,) sin22 sin2 = +
	Suctor OU -> (Sin2(02-91) Sin2 2/25 14 22)
	COS22COS22 + SIN2251722+2COS(Q2-Q1)SIN251022 COS26052
1	= (1+cosa)(1+cosa)+ +(1-cosa)(1-cosa)+ = cos(a2-a1)sina, sina2
	1/2 (1+ Sino, 8inoz cos caz-ai) + coso, cosoz) = Lnz 1n, 212
	for Dot product {(1+n, Nz)
	Sindsind cosquesa, + Sind, Sin oz Sind, Sindz + coso, cosoz
	Sina, sinaz (cosa, cosaz + Sina, sinaz) + cosa, cosaz
	$(1 + SinQSinQCoS(Q_2-Q_1) + cosQ_1cosQ_2) = \frac{1}{2}(1+n.n_2)$
	Thus $ (n_2 n_1) ^2 = \frac{1}{2}(1+n_1\cdot n_2)$
gles age as	
/	