(Saathi) assuming vix < 1, if not will convert Q.3) It into 2k Mk such that n/2 ~ < 1 Lets find on first-Let n = cos20 since, | co3 0/5 1 W120 = 200120 -1 7 cos20 51 7 2600 2 cos 20 6 2 7 200520-1 51 7 234-1 51 2x=1,\*) => cos 20 = 2x -1 (1,0) we will retate (1,0) anti-clockwise such that x-axis is (2x-1) The angle we get is 20 (using victoring mode condic) Then right shift by 1 bit to get Q. Then we will use Rotation CORDIC to find cost. Rot 650 We will reuse these moods corptc after to - cycles. bet we will set on after 16 cycles. Let cos d = In (here assumed that Y<12) if not we will convert it into y = some integer + y'

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we will use vectoring GRDIC to find &.	
After finding the &, we will use Robation GRO	)2c
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Here, we	
How -1) Vectoring mode CORPIC - 16 cgc	les - find 20
2) Right shift by 1 to get 0  3) Robation ORDIC - 16 cycles - prince	1 52
4) Vectoring CRDIC - 16 cycles - find	
5) Rotation CORDIC - 16 cycles - fin	