Q). Let
$$y = -1$$
; $n = 5$; Find y'_n through LORDIC.

-> For Linear protations

Division is computed in vectoring Mode = - 18n (riyi)

Look up table:

	D	١	2	3	ц	5	b	7	8	9
, , , 2	\	0.5	0.25	0.125	0-0625	0.03125	0 · 01 23X	0·00781 25	0·00390 - 625	0.0019 53125

Stop 0:

To for division set
$$20=0$$
; $10=5$; $10=-1$.

To do = $-49n(1090) = -49n(5.-1) = 1$

The stop 1 is encoded as 0 in well.

$$\frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}$$

Stop4:

$$774 = 5$$

 $74 = 43 + 632343) = 0.25 - (713) = 0.25 - (8) = -0.375$
 $74 = 73 - 6323 = -0.25 - (-1) = -0.125$
 $74 = 73 - 6323 = -0.25 - (-1) = -0.125$
 $74 = 73 - 6323 = -0.25 - (-1) = -0.125$

Step 5:

$$717 = 716 = 5$$

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$$\frac{3+498}{1}$$

$$\frac{8}{1}$$

$$\frac{1}{1}$$

Step 9:

$$1329 = 38 = 5$$

 $1329 = 38 = 6$
 $1329 = 38 = 6$
 $1329 = 28 = 6$
 $1329 = -0.0386$
 $1329 = -0.1953 = -0.1953 = -0.1991$
 $1329 = -0.1991$
 $1329 = -0.1991$
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 $1329 = -0.1991$
 $1329 = -0.1991$
 $1329 = -0.00386$
 $1329 = -0.00386$
 $1329 = -0.00386$

Final obtained Result after 10 iterations =
$$2q = -0.199$$

Actual Result = $-\frac{1}{5} = -0.2$

CORDIC PRACTISE DIVISION 2