

WELCOME TO Adda 2417

"If you can think, you can Achieve"
So start thinking..

Renu Raj Garg
M.Tech (VLSI Design)
13 Year of Teaching
Experience
Worked 10 Year in NTRO





COMMUNICATION



QUANTIZER IN PCM

TIME- 9:00PM

RENU SIR



Chapter-2 Digital Communications

In today's lecture we will cover the following Topis:

1. QUANTIZER in PCM



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Know How You Can Ask Your Doubts 24x7.

AND THE RESIDENCE OF THE PARTY OF THE PARTY

Direct interaction with Adda247 Faculty team

No Subscription Required





Code

You Tube Classes Schedule (2)





EXAM TARGET	SUBJECT	TIME	FACULTY
ALL PSUs	ENGINEERING MATHS	11:00 AM	ANANT SIR
GATE 2024-25	NETWORK THEORY	6:00 PM	RAVISIR
GATE 2024-25	ELECTRICAL MACHINE	7:30 PM	SANTAN SIR
GATE 2024-25	COMMUNICATION	9:00 PM	RENU SIR

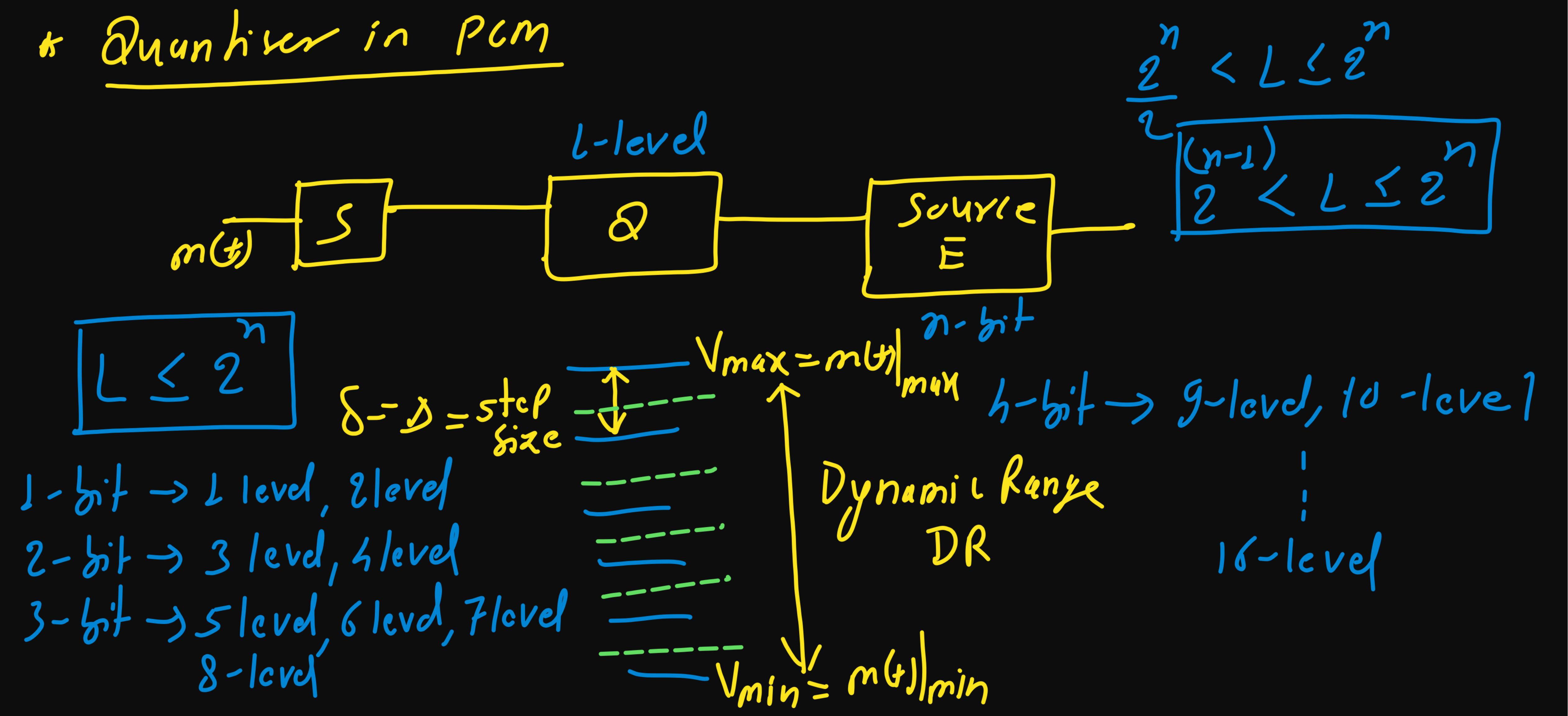
FREE APP CLASS SCHEDULE





NETWORK THEORY	SATURDAY Live @11AM	RAVISIR
COMMUNICATION	WEDNESDAY Live @8PM	RENU SIR
ANALOG ELECTRONICS	THURSDAY Live @8PM	LAWRENCE SIR
ENGINEERING MATHEMATICS	FRIDAY Live @11AM	ANANT SIR
ELECTRICAL MACHINE	MONDAY Live @8PM	SANTAN SIR





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$$D = \frac{DR}{L} = \frac{V_{man} - V_{min}}{L} = \frac{U_{ni}form \ quantizer}{Q_{c}|_{man} = \frac{T}{2}} \frac{0}{2}$$

$$Caxci) \quad L = Even(mid \ \pi k) \quad |O|olp \quad 3.5 \quad Q_{c} = A_{u}tuJ \ vJuc$$

$$V_{man} = +4V_{p}p_{c} = 8V$$

$$V_{min} = -4V$$

$$V_{min} = -4V$$

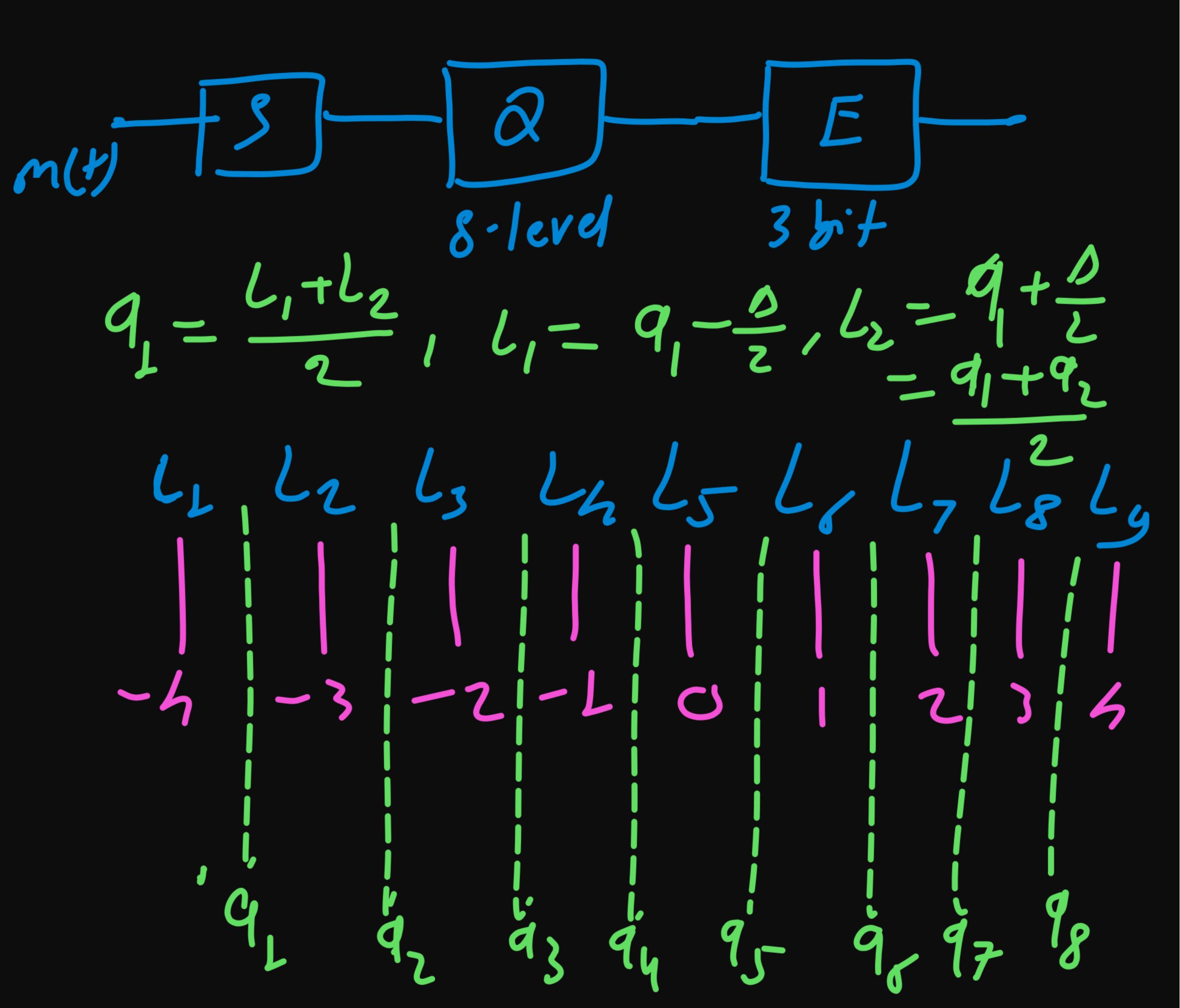
$$V_{min} = -4V$$

$$V_{min} = -4V$$

$$V_{c} = 8 \text{ level}$$

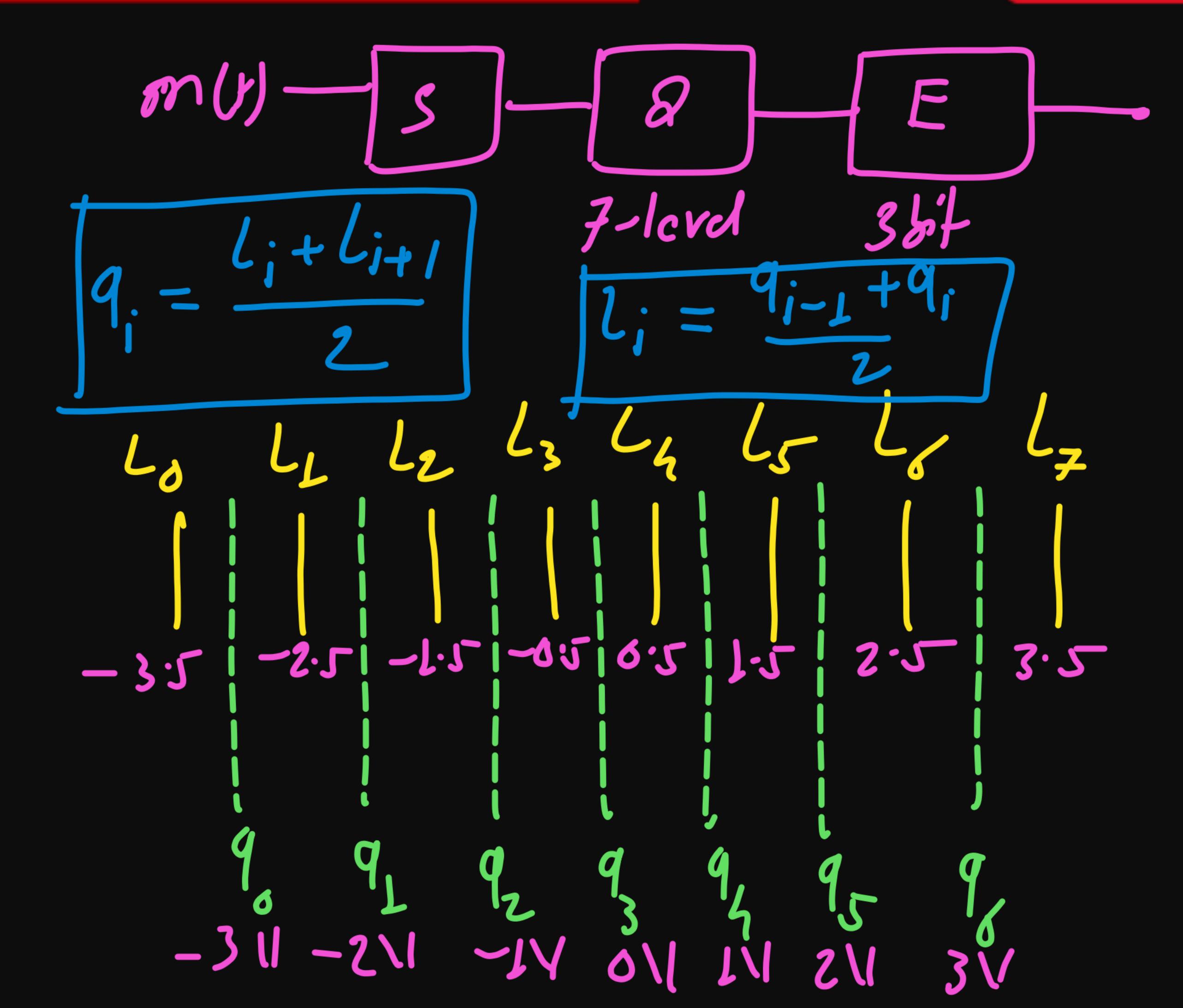
$$V_{c} = \frac{V_{man} - V_{min}}{V_{c}} = \frac{V_{man} - V_{min}}{V_{c}} = \frac{V_{man} + V_{min}}{V_{c}} = \frac{V_{man} - V_{min}}{V_{c}} = \frac{V_{ma$$





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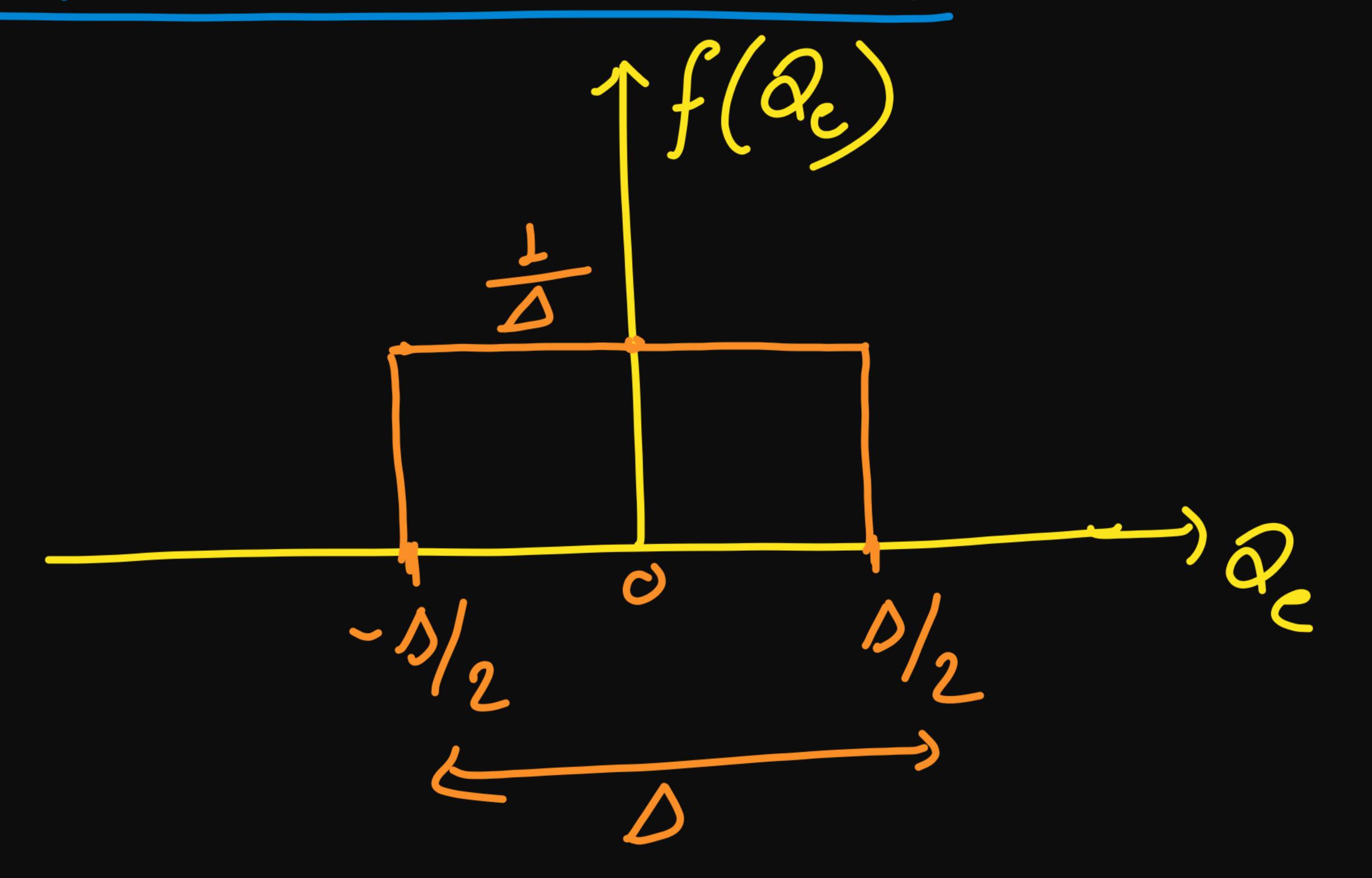






Probability donsity for of Quantis Lim Error (Qc) -> Uniform quantizer

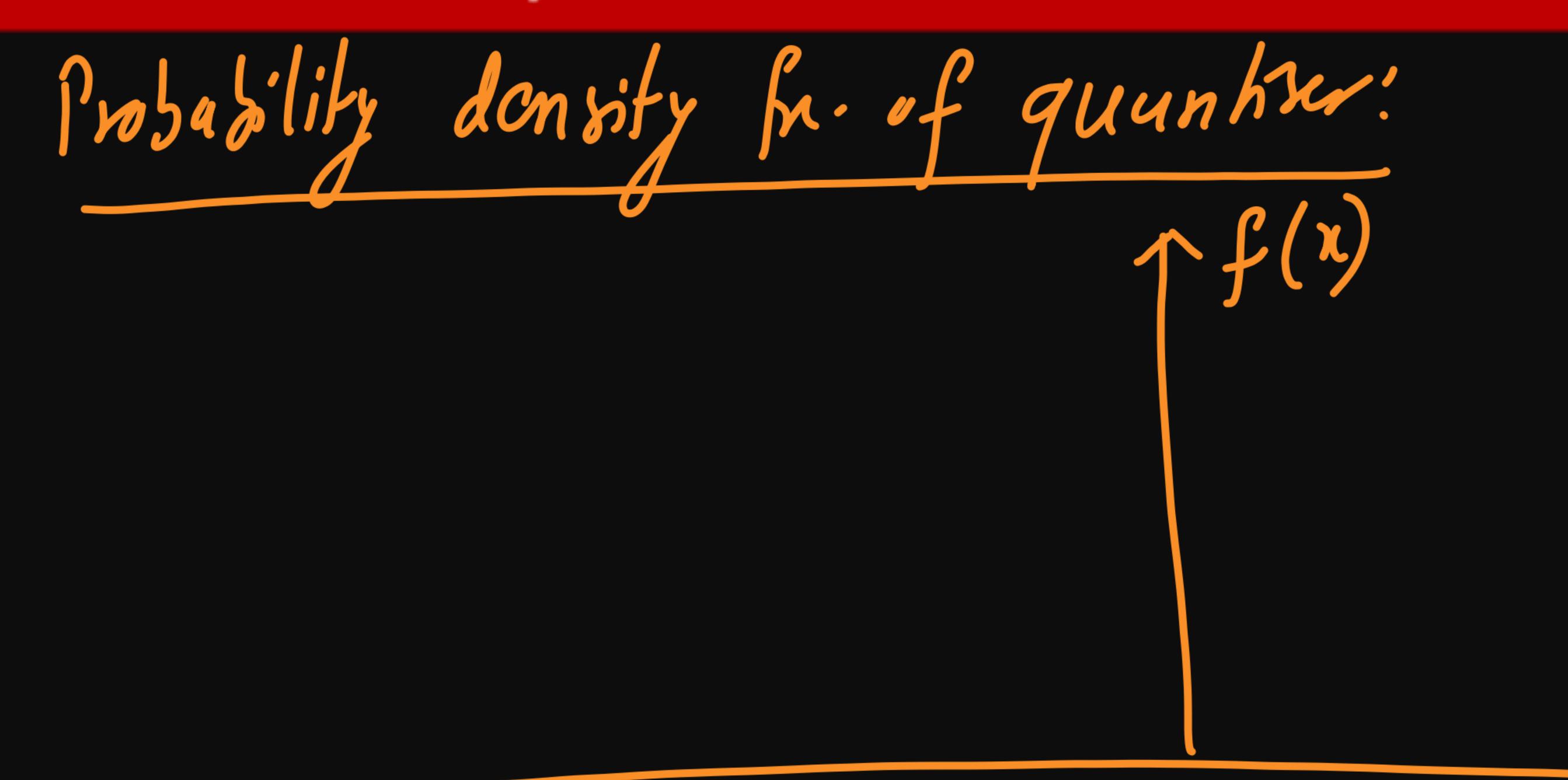
$$O_c = \pm \frac{1}{2}$$



$$f(n) = Polf$$

$$F(n) = PDI$$





X

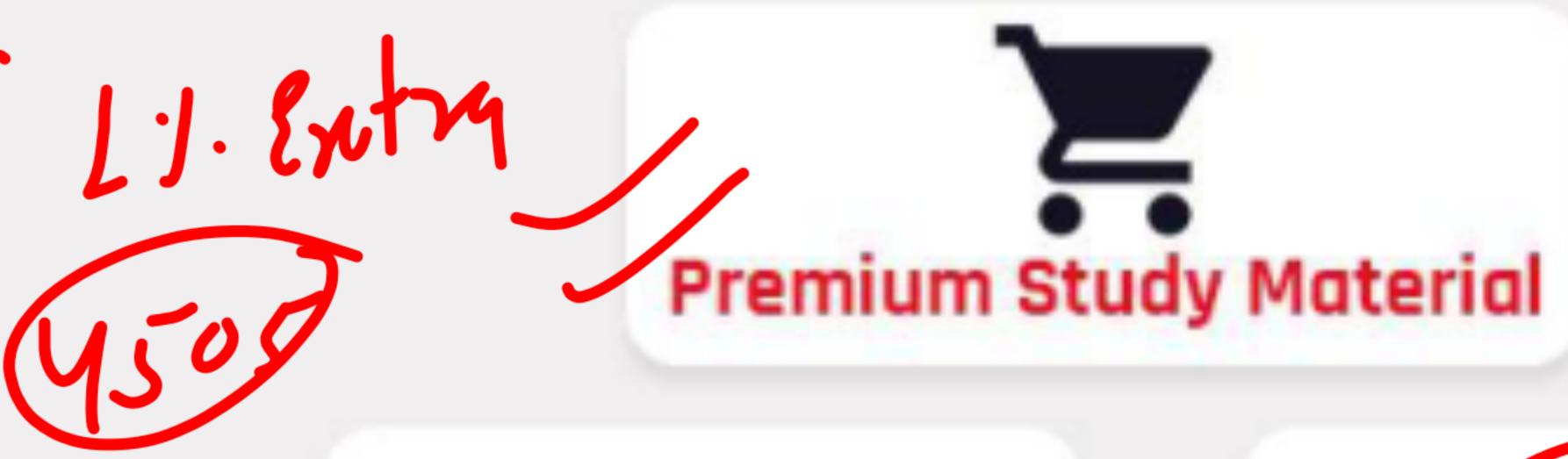


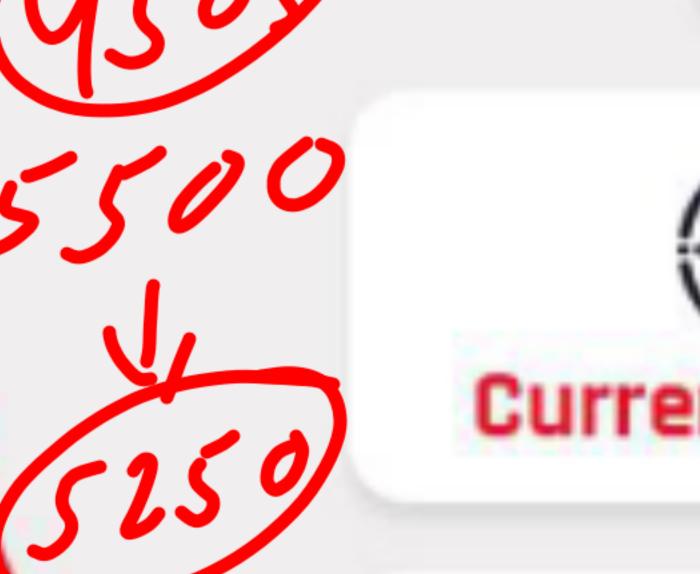
Community 24x7

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Adda[24]7 APP

APP FEATURES

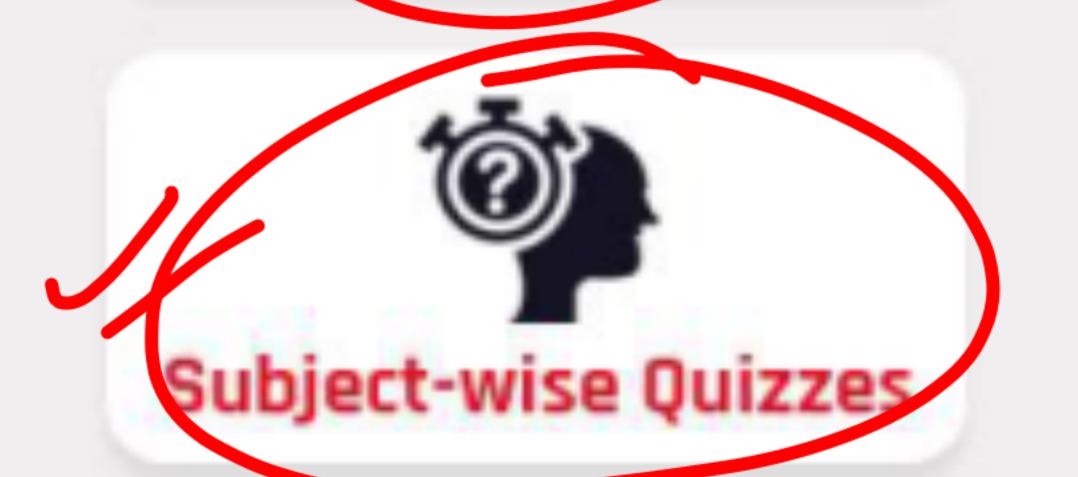






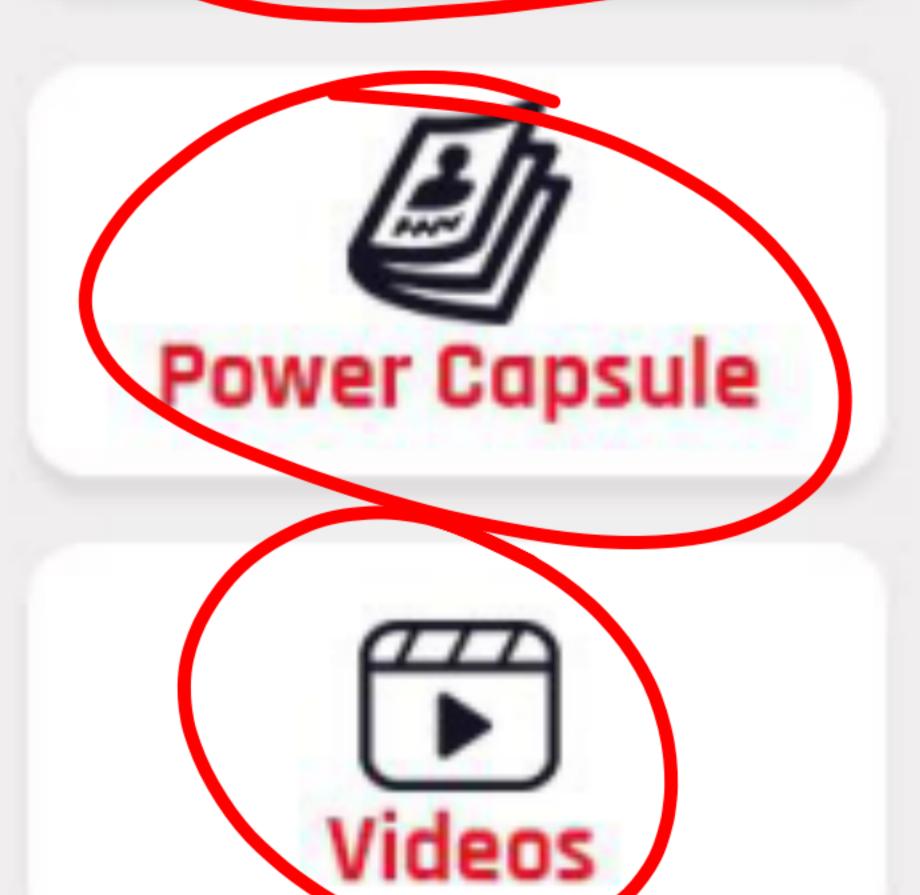












THANKS FOR

Matching Adda 247







