## COMMNET-PS1

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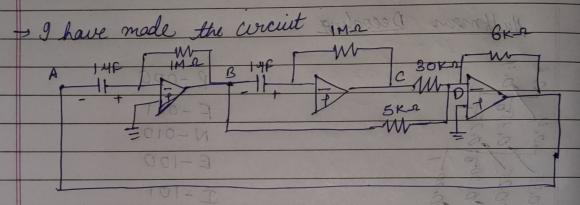
## Huffman Decoding

R-000 F-001 E-100 I-101 H=0:4110 to V S - NI V-0111 X-01100 10 U-01101

RHZM-00 > X )

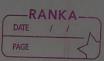
$$\frac{d^2y}{dt^2} = 6\frac{dy}{dt} + 5y = 0$$

Circuit (Using differentiator circuits of of-Amps)



So at B 
$$V_B = -10^{-6} \times 10^6 dy$$
 dy dt

$$= \frac{d^2y}{dt^2}$$



d'y 6 dy +5y =0 , Required deff

dt<sup>2</sup> oft +5y =0 , Required deff

Now for initial conditions

Let ve be voltage across at t=0 across 1st

Capacitor so VA + ve =0 (According to polarity)

Y/t=0 + ve = 0.

Let  $v_b$  be voltage at t=0 across 2nd capacitor  $\frac{1}{1}$   $\frac{1$ 

dvb = 5V

>> From the Graph y(t) = 6 at t≈ 1ns