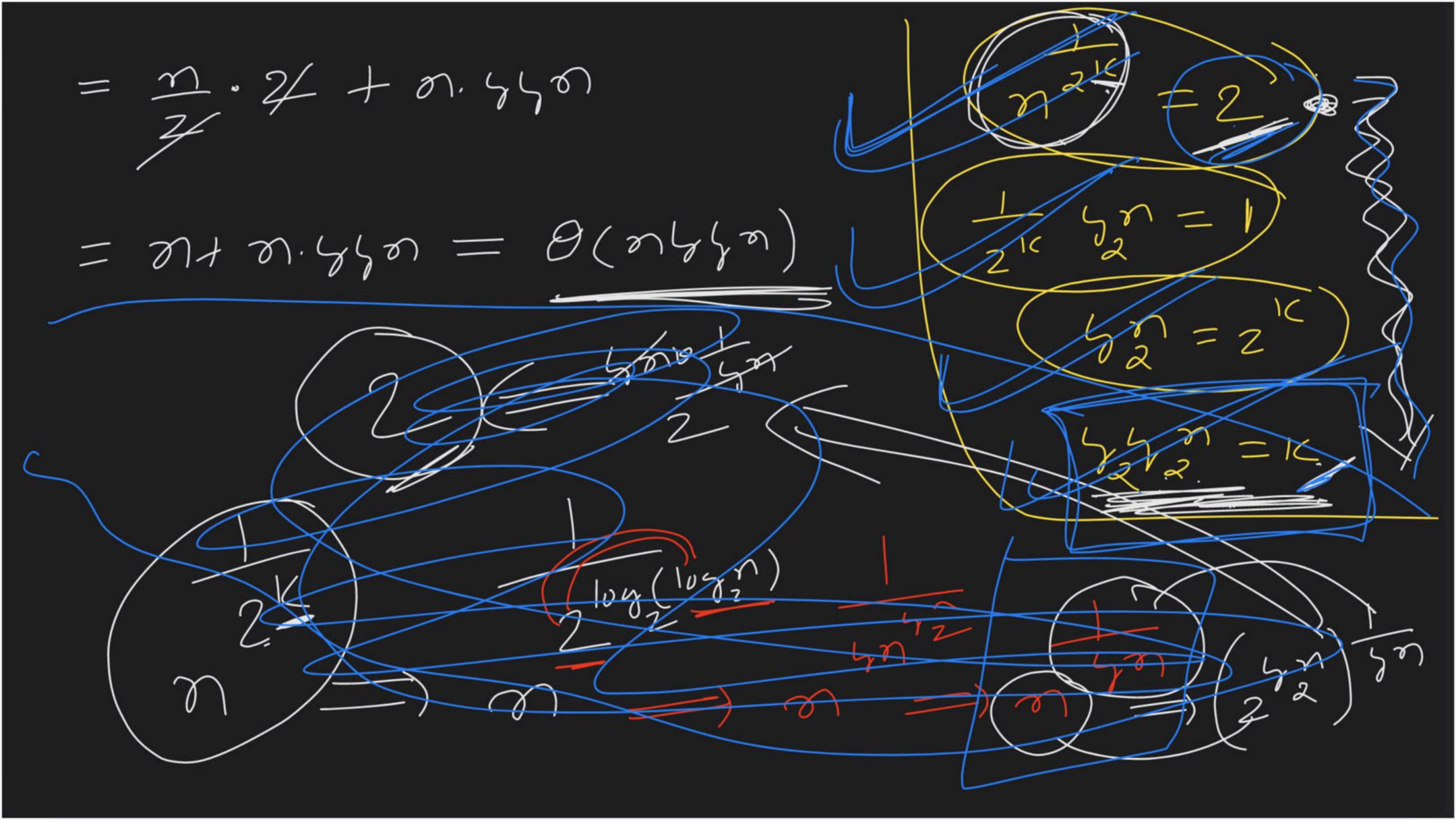


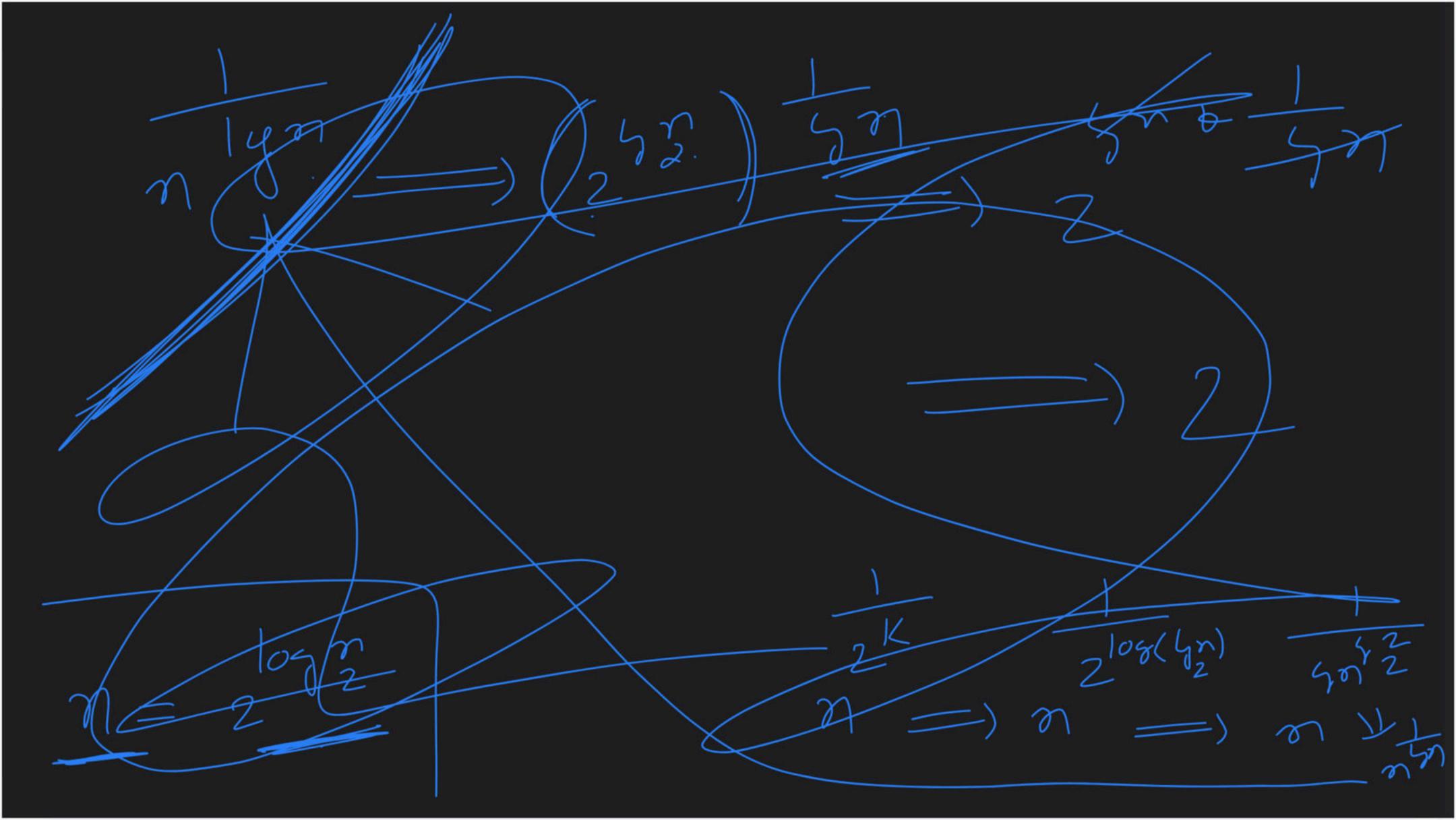
Complete Course on Algorithm for GATE - CS & IT

$$T(n) = \begin{cases} 10 & |x - 1| \\ 1 & |x - 2| \\ 1 &$$

$$T(n) = \begin{cases} 2 & 1 + n = 2 \\ 1 & 1 + n = 2 \end{cases}$$

$$T(n) = \begin{cases} n^{2} + (n^{1/2}) + (n^{$$





$$T(n) = \begin{cases} 1 & 1b & n = 1 \\ 2T(n-1) + h & 1b & n > 1 \end{cases}$$

$$T(100) = 2T(9)$$

$$T(n) = 2T(n-1) + n$$

$$= 2 \left\{ 2T(n-2) + (n-1) + n \right\}$$

$$= 2^{2}T(n-2) + 2(n-1) + n$$

$$= 2^{2}\left[2T(n-3) + (n-2) \right] + 2(n-1) + n$$

$$= 2^{3}T(n-3) + 2^{3}(n-2) + 2^{3}(n-1) + 2^{3}(n-2) + 2^{3}(n-2)$$

$$T(100) = 2T(99) + 100$$

$$M-K = 1$$

$$M-1 = K$$

.. 1 Z(n-1) +2 (n-0)

$$T(n) = 2^{0}(n-0) + 2^{1}(n-1) + 2^{2}(n-2) + \cdots + 2^{n-2} + 2^{n-1}$$

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$$-T(n) = \eta - \left[\frac{z^{1}+z^{2}+z^{3}+\cdots+z^{n}}{z^{2}}\right] \xrightarrow{z^{n}+z^{n}} \frac{z(z^{n}-1)}{z^{n}-z^{n}} - \eta$$

$$T(n) = -\eta + \left[\frac{z^{1}+z^{2}+\cdots+z^{n}}{z^{n}}\right] \xrightarrow{z^{n}+z^{n}} \frac{z(z^{n}-1)}{z^{n}-z^{n}} - \eta$$

$$T(n) = 2^{n}+2^{n}-2^{n} - \eta = 0$$

T(n) = 2T(n/2) + onlogon

$$T(n) = 10 \cdot 2 + 20 \cdot 2 + 30 \cdot 2 + 40 \cdot 2 + 40$$

$$\frac{a(x^{n-1})}{x-1}$$

$$\frac{a(1-y^{0})}{1-y}$$

$$\frac{1}{1-y}$$

$$\left(\frac{1}{2}\right) = (0.25)^{2}$$
 0.0625