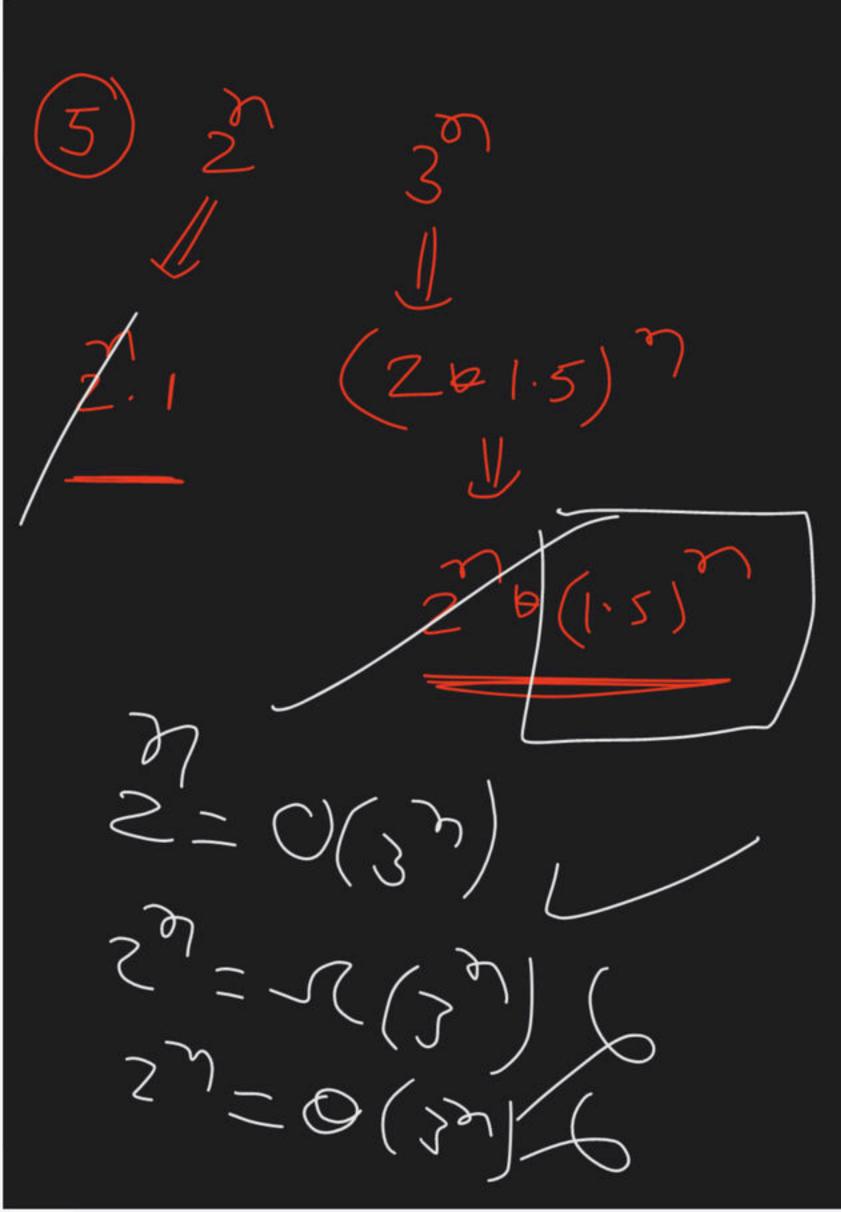


Complete Course on Algorithm for GATE - CS & IT

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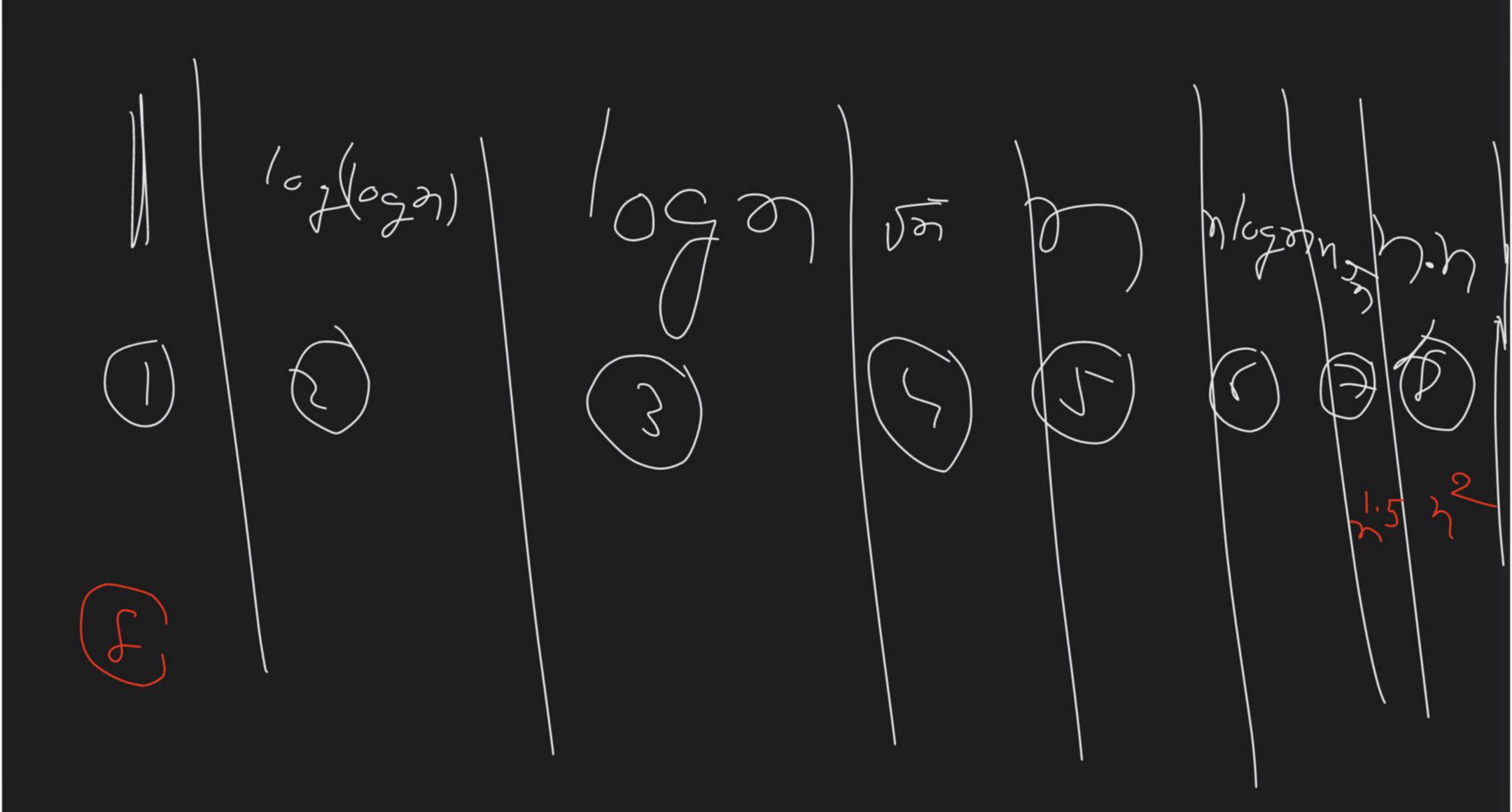
$$502^{n} = 0(n^{n})$$
 &  $\sqrt{2}$ 
 $503(n!)$  &  $\sqrt{2}$ 
 $\sqrt{2}$ 
 $503(n!)$  &  $\sqrt{2}$ 
 $\sqrt{2}$ 

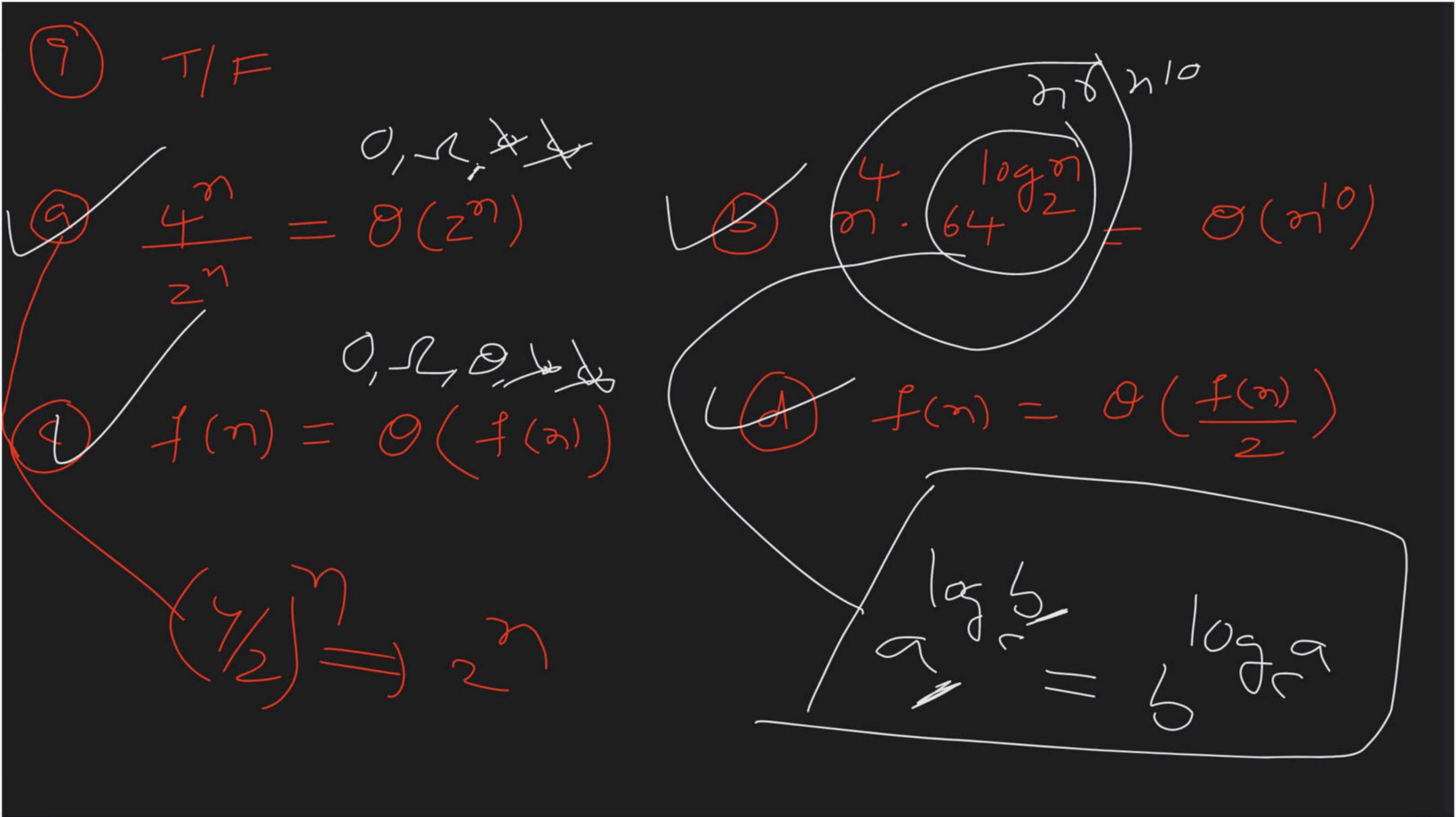
578/1/27 7/ = 2(2)

(6) (1) 
$$n! = O(n^n)$$
,  $3b \times 8$   
 $2) 4(n!) = O(104(n^n))$ ,  $0$ ,  $1$  Strling.

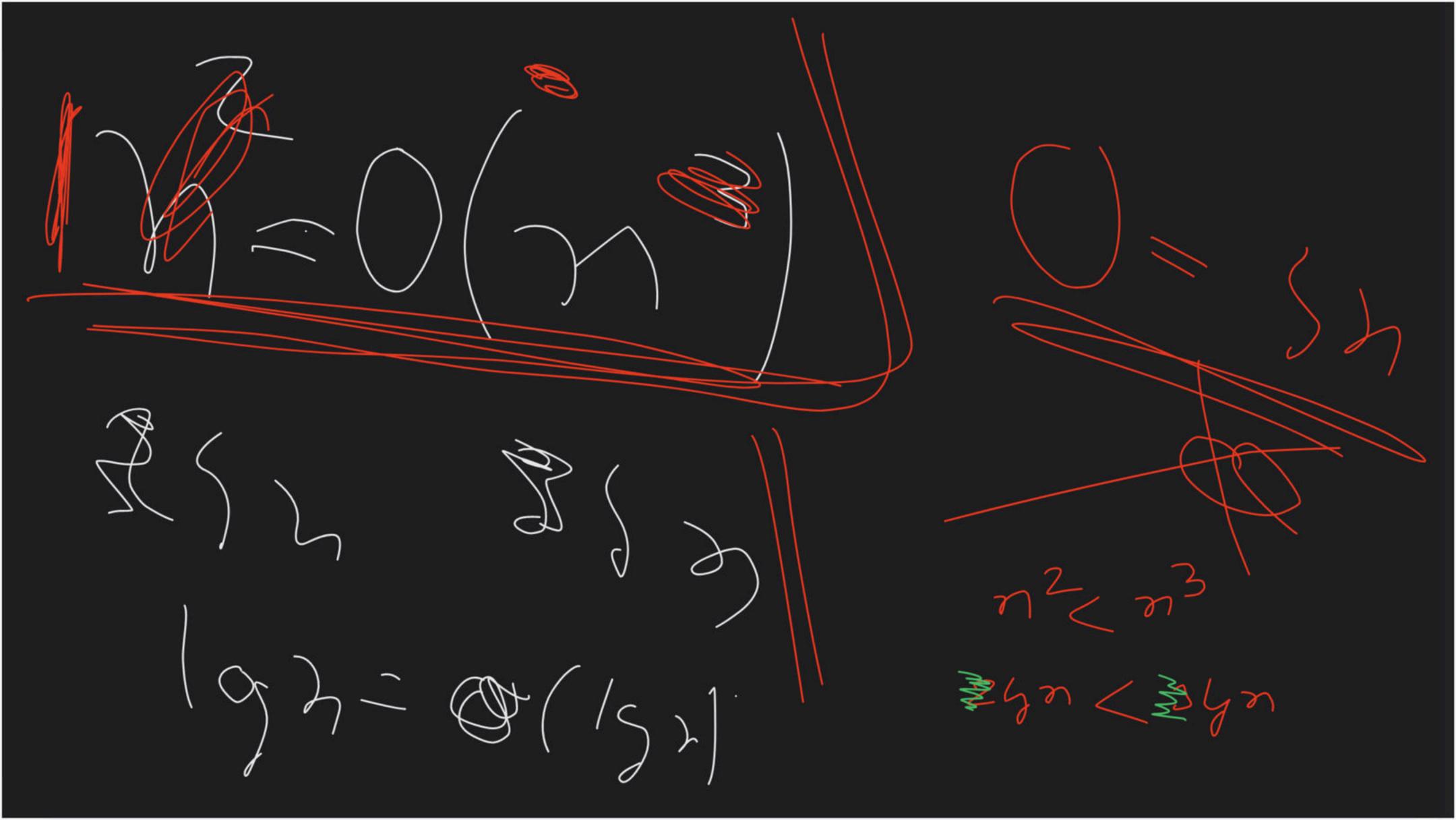


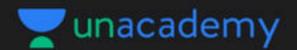
$$\begin{array}{lll}
\boxed{3} & \frac{1}{F} \\
\boxed{6} & \frac{1}{1000} \cdot \frac{1}{1000} & = 0 \left( \frac{1090}{1000} \right) & = 0 \\
\boxed{1} & \frac{1}{1000} & = 0 \left( \frac{1090}{1000} \right) & = 0 \\
\boxed{1} & \frac{1}{1000} & = 0 \\
\boxed{1}$$











1 · Asked by Akash

Please help me with this doubt

$$n! \sim \sqrt{2\pi n} \left(rac{n}{e}
ight)^n.$$