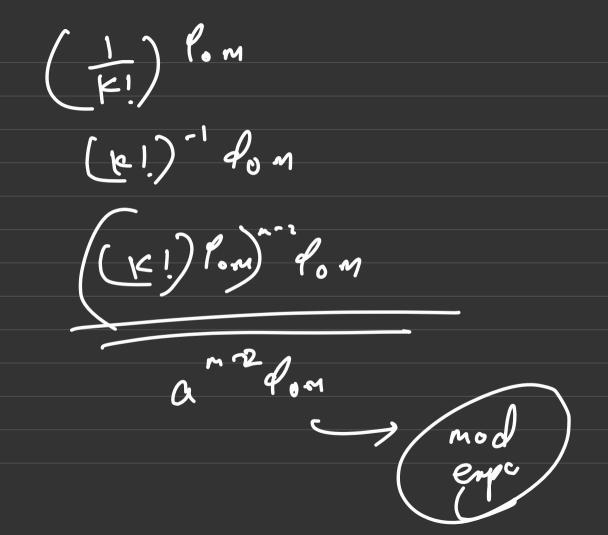
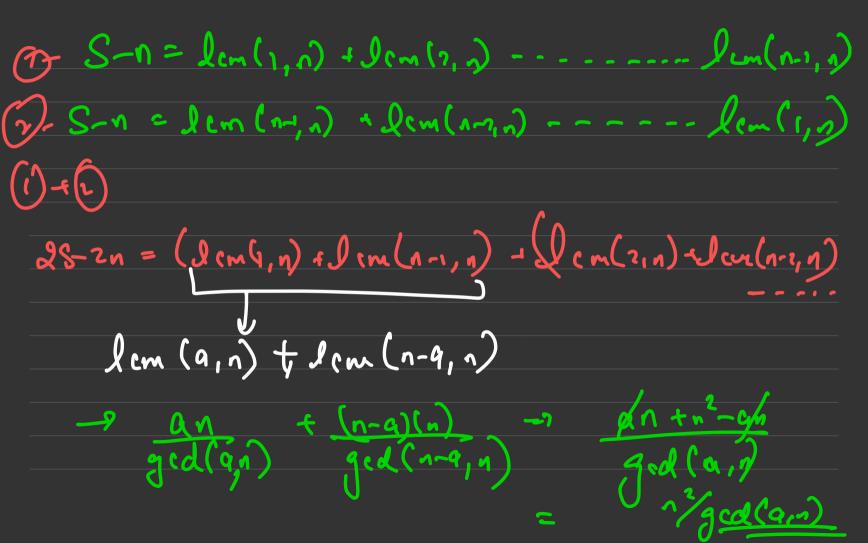


-> ((Aric)!) (em -> ((n-K)) dom By format's theore a dom -> a ~2 dom (n-14) | 'dom) n-2 dom



Evaluate the followy expressen for a gener value of n S = lcm(1,n) + lcm(2,n) + lcm(3,n) - - = lcm(n,n) + lcm(n,n)

S-n= lcm(1,n) r lcm(2,n) ---. lcm(n-1,n) we know ged (a,n) e ged (n-4,n)

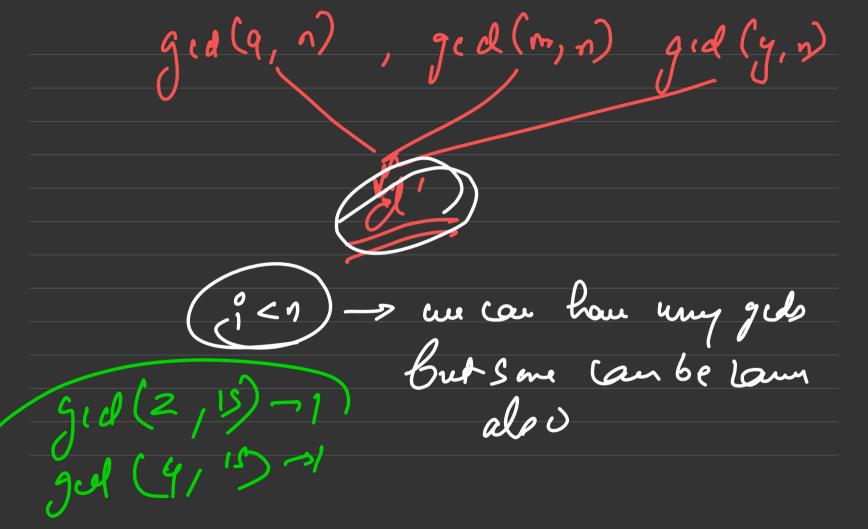


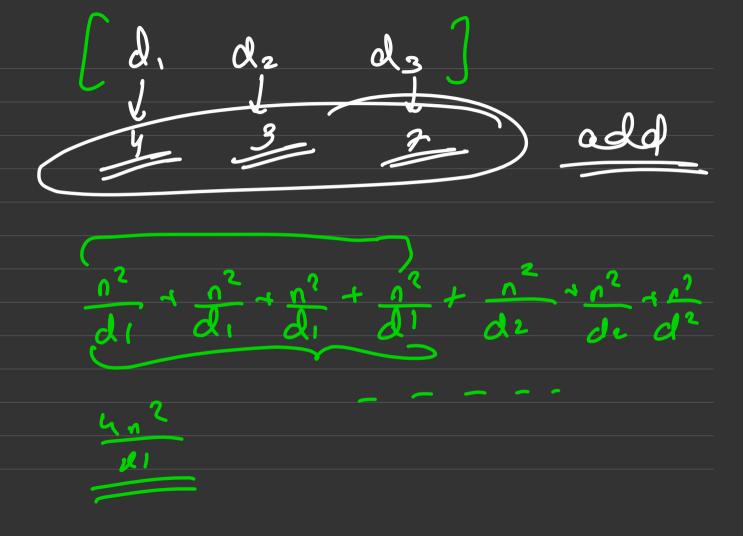
$$28-2n = \sum_{i=1}^{n} \frac{n^2}{g(d(i,n))}$$

$$70id opprod - n value$$

$$g(d(0,0)) = O(10p)$$

$$2S-2N=N^2 \stackrel{N-1}{\leq} \frac{1}{g(d(i,n))}$$





for how may i's ged (i, 1) = d ged (-) all no. 9 smaller than of, coprise 25-21

 $2s-2n= \leq n_x d_x d(d)-1$

 $\frac{d^{21}}{d^{21}} \rightarrow \frac{\partial(1)x}{\partial x} = \frac{1}{2}$

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

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