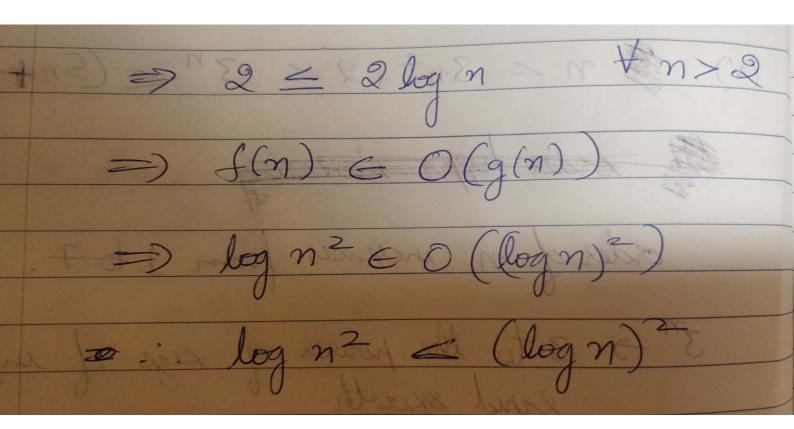
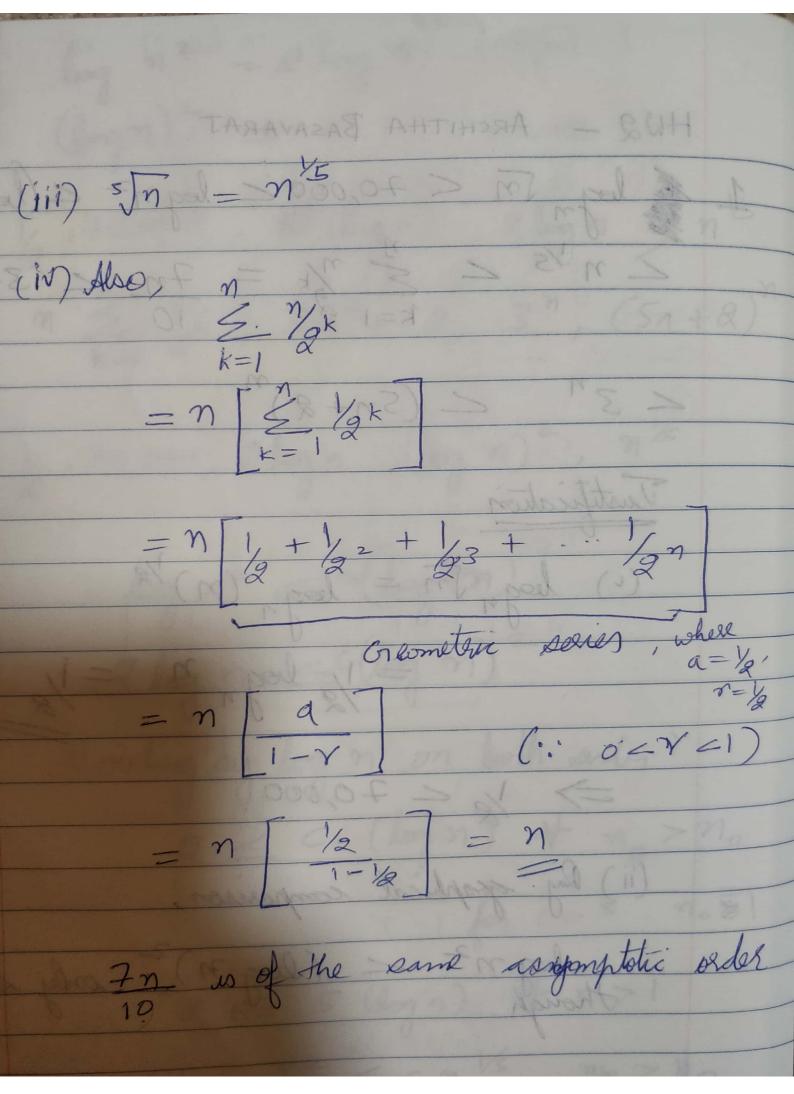
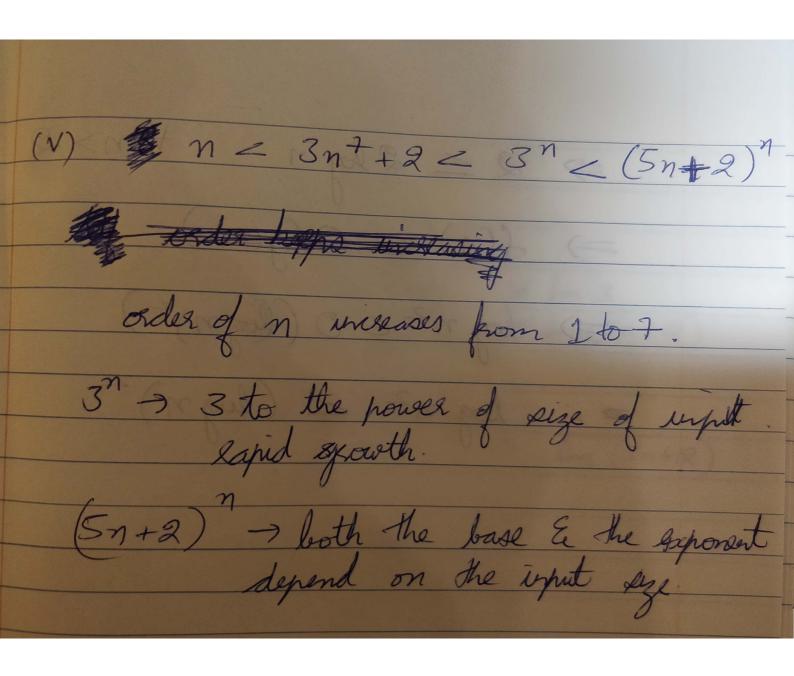


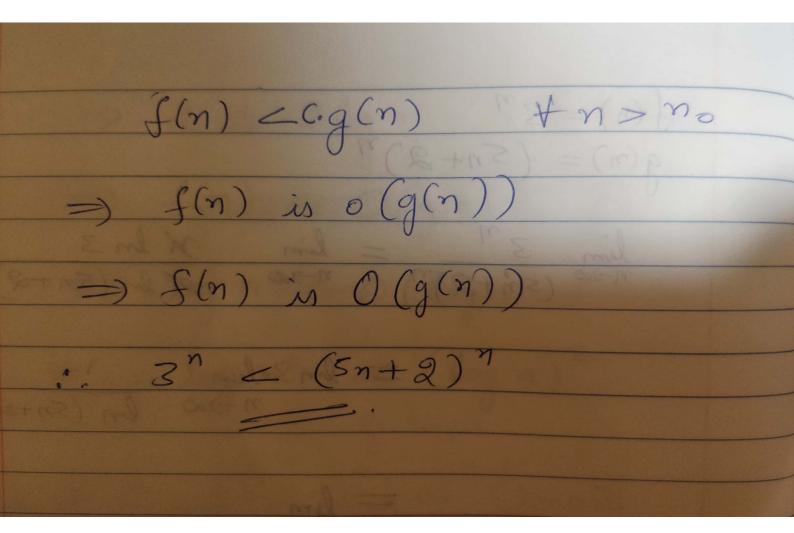
 $\frac{4}{9}f(n) = \log n^{2}$ $g(n) = (\log n)^{2} \quad \text{then}$ $f(n) \leq cg(n) \quad \text{where } \forall n > n_{0}$ $\log n^{2} \leq c(\log n)^{2}$ Dividing by lognon both Ades $\frac{2}{\log n} \leq c(\log n)^{2}$ $\frac{1}{\log n} \leq c$



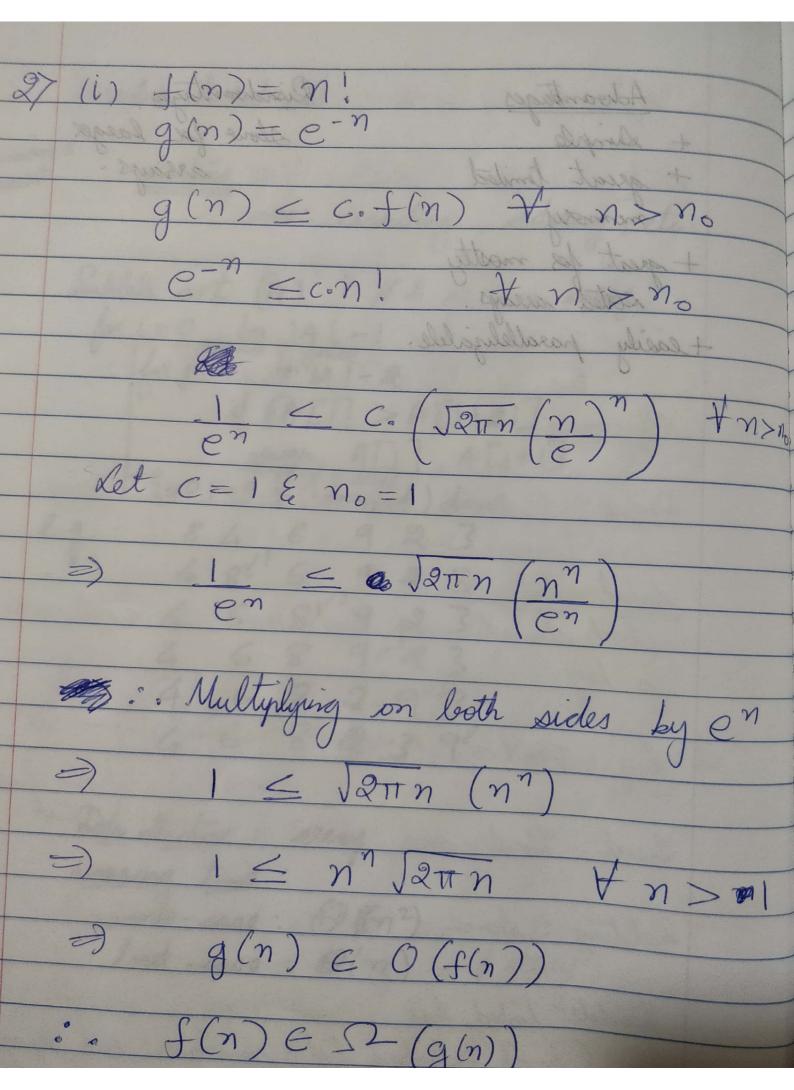




 $f(n) = 3^{n}$ $g(n) = (5n+2)^{n}$ $\lim_{n \to \infty} f(n) = \lim_{n \to \infty} 3^{n}$ $\lim_{n \to \infty} g(n) = \lim_{n \to \infty} (5n+2)^{n}$ $Taking & \text{In on both numerator } \mathcal{E}$ denominator $= \lim_{n \to \infty} \chi \ln 3 = \lim_{n \to \infty} \lim_{n \to \infty} \frac{1}{n+2n}$ $= \lim_{n \to \infty} \chi \ln (5n+2) = \lim_{n \to \infty} \frac{1}{n+2n}$ $= \lim_{n \to \infty} \frac{3}{n} = \lim_{n \to \infty} \frac{1}{n}$ $= \lim_{n \to \infty} \frac{3}{n} = \lim_{n \to \infty} \frac{1}{n}$ $= \lim_{n \to \infty} \frac{3}{n} = \lim_{n \to \infty} \frac{1}{n}$



	A	B	0	0	-92	8	(-)
	n!	e-n	No	No	Yes	Yes	No
	5 /g k	log (log n)	No	No	Yes	1/25	No
	k=2						
	10n2+6n-2	(7)	Yes	No	Yes	No	Yes
	log(n2)	e la (la n)	Yes	No	Xes	No	Xes
	7		44943				The second
	5 (+ -1/k) k=1	Jn	Yes	Yes	No	No	No
	k=1		4 0				
4 74 4 70 4				The second	7 7 7 7		



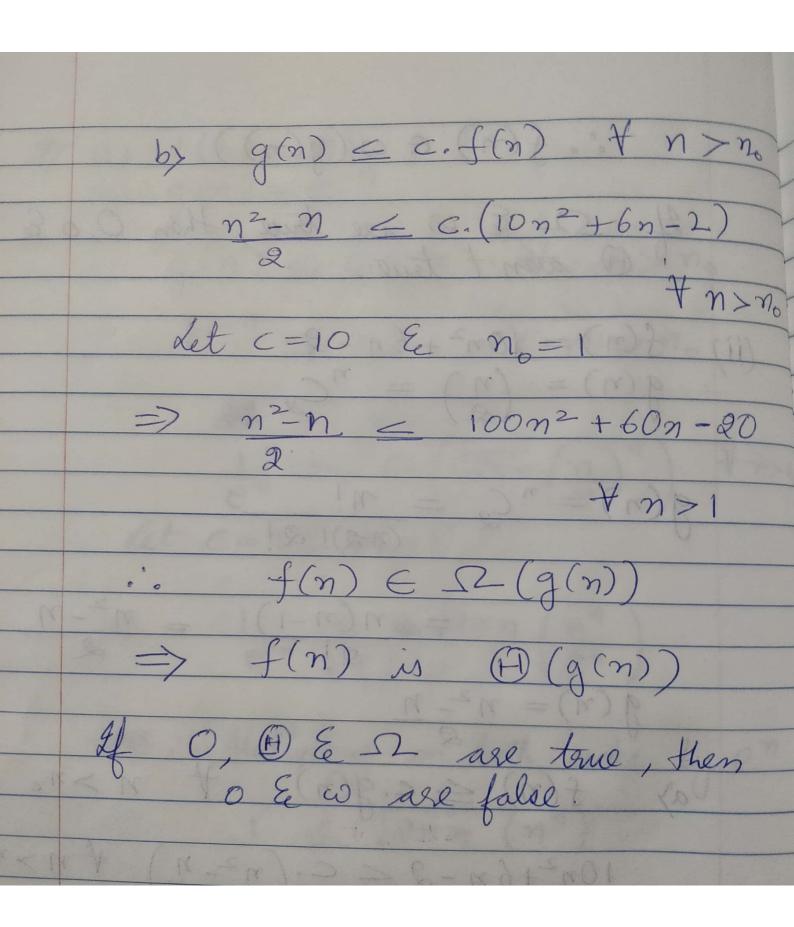
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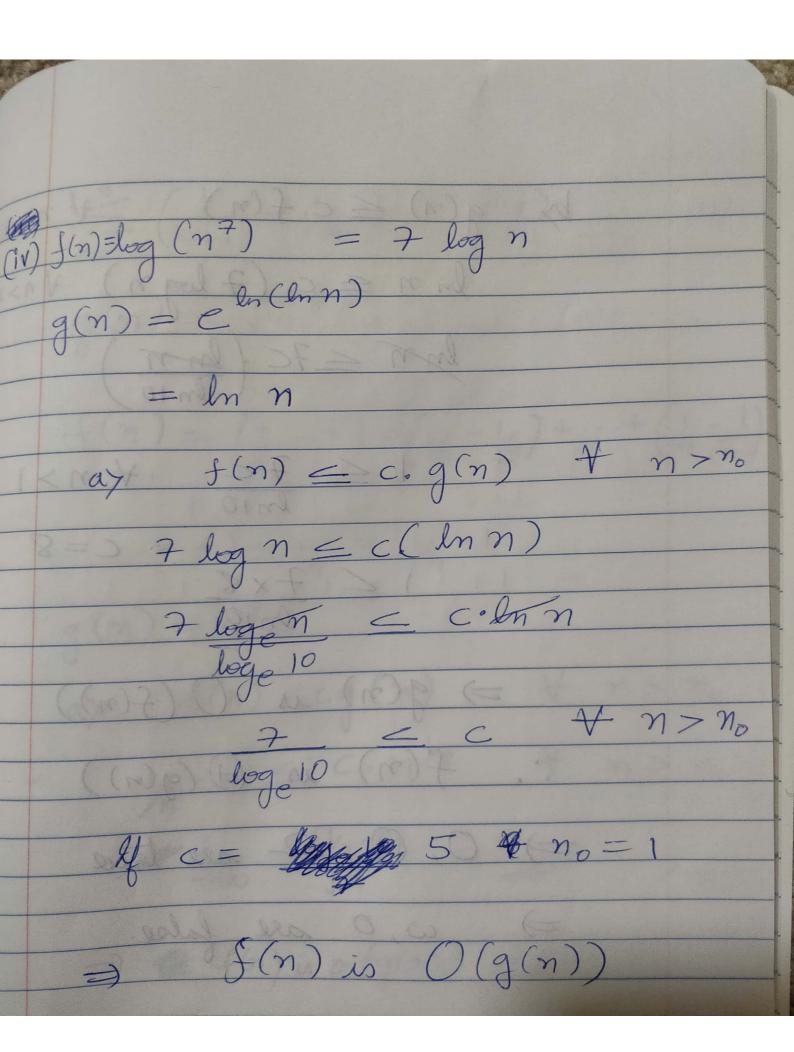
in
$$f(n) \in \omega(g(n))$$

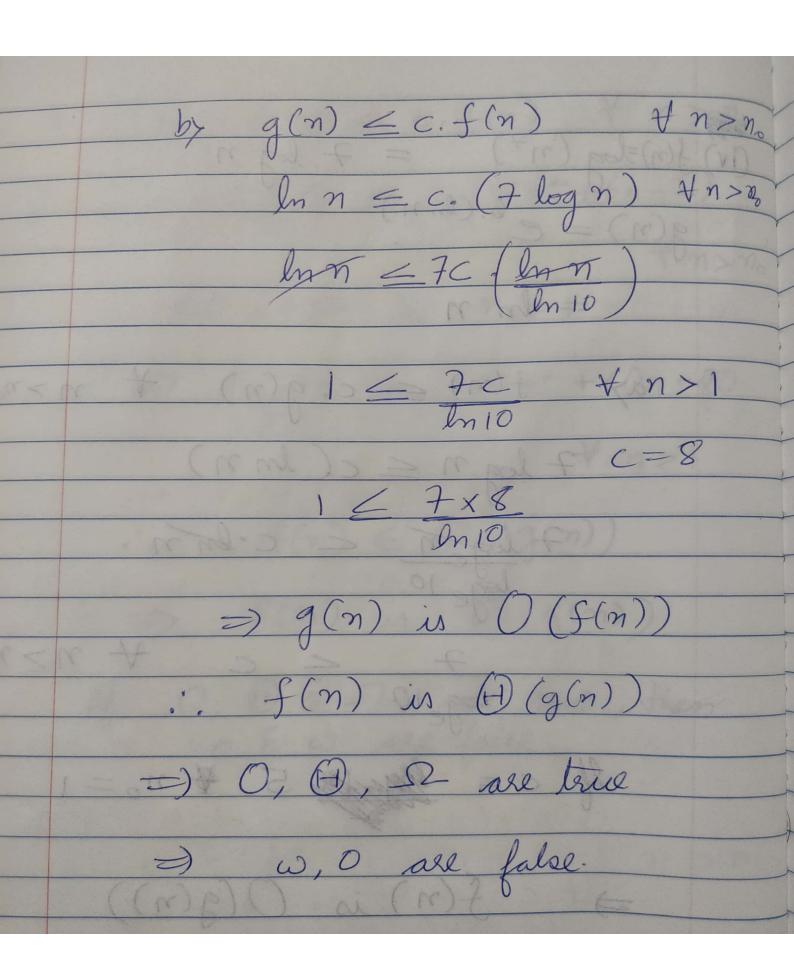
If $S = E$ we ask true, then $O, o E$

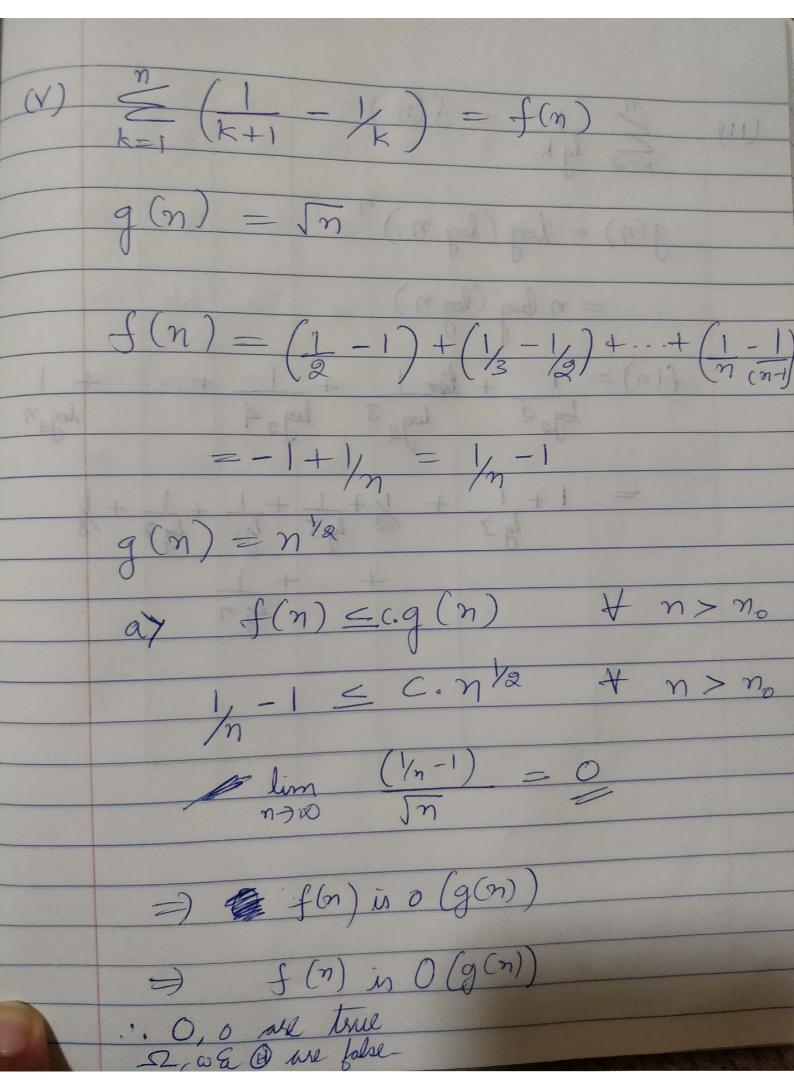
in $f(n) = 10n^2 + 6n - 2$
 $g(n) = \binom{n}{2} = \binom{n}{2}$
 $g(n) = \binom{n}{2} + \binom{n}{2} = \binom{n}{2}$
 $g(n) = \binom{n}{2} + \binom{n}{2} = \binom{n}{2}$
 $g(n) = \binom{n}{2} + \binom{n}{2} = \binom{n}{2} + \binom{n}{2} = \binom{n}{2}$
 $g(n) = \binom{n}{2} + \binom{n}{2} = \binom{n}{2} + \binom{n}{2} = \binom{n}{2} + \binom{n}{2} = \binom{n$

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