Ben Pung 1. N 1gh faster than h $\lim_{n\to\infty}\frac{n|gn}{n}=\lim_{n\to\infty}|gn=\infty$ les this means in ly in grows laster. F & w(5) $\frac{2}{\sqrt{100}} \frac{h^3}{h^2} = \lim_{n \to \infty} h = 0$ FEwes) When when 43 food Han 4? $\frac{1}{2} \frac{2}{4} = \lim_{n \to \infty} \frac{2n-1}{2} = \emptyset$ few(s) which means 2 is form than 2 4. In (a) and Ig (h) grow at some rake (m) and 192.

1 in lose (n) derivative 1

1 in lose (n) derivative 1

1 in lose (n) FEDG) mening In(n) and Ig(n) Sion Sam (1) Is n for by 1 m 152 m - lin 15 m = P FE 10(5)

6 25 y = 5 7 lin 20 4 - ling 50 = 50 = C If & OGS majoring Same 250 = .54 7. fa)=0 < f(x)=4 f (. (5) yearing O is slower than by lim 15 10 - lim 11/2) lim 1500 15(h) 1/2)

1 1 1/500 15 (15h) 1 1/2 (15h) 1/ 9. O(f) Says g(n) is O(f(n)) if n > h.

and $g(n) \leq C$, f(n) n! from a n > 10154m 971 white n=5 c=1, a=2

Nt=120 The fer a EO(n) an = 32 where n 7 ho

