1FF-818 Robas Eliushis Individuation vistuallys Variountees 6 a)11. +(u) = u9 - Lu3 - 4 a(u) = u8-9 n3 + 10 u lim $u^3 - 1u^3 - 4 - u - u^3 - u^8 = 0$ $u > \infty$ $u^8 - 9u^3 - 10u = 1 - \frac{9}{15} - \frac{10}{15}$ dls: +(u) = 12 (g(u)) anda g(u) = 0(+(u)) b) 57. + (n)=(log, (n))2 g(n)= Jn= log3 n lin (log, (n2))2 - 4 lim (log, 2)2 - 4 lim (log, 2)2 - 60g, 3 = h lim 4 lu (3) linn lu (n) - [00] = -4 ln (3) lim 2 st x2 = 42ho(3) lim 1 = = [-1 - 0 ets: flu) = 0 (g (u)) anda g (u) = 52 (flu))

18. 0 (13+ (log3 (12))2) f (u) = un 3 g(u) = (log , (u2))2 $\lim_{n\to\infty} \frac{n^3}{(\log_3(n^2))^2} = \lim_{n\to\infty} \frac{n}{(\ln(n))^2}$ - (h (3)) lim 13 = (h (3)) lim 3x3 = (h (3)) lim 3x3 = (h (x)) = 4 mood 2h (x) = 3(lm(3))² lim 2x³-[00]3(lm(3))² lim 3x³-00 f(n) = 12(f(n)) auba g(n) = 0(f(n)) Ato) O(u3+(logs(u2))2)=O(u3) E (15+914+10) S(x5+9x4+10)dx 4 = (15+9;4+10) = (x5+9x4+10)dx $\frac{1}{2} \left(\begin{array}{c} x^{6} + 3 \\ x^{5} + 10 \\ x^{6} + 3 \\$ = 5(u+1)6+54(u+1)5+300u-59 Ats.



