b= 37 tin1= ~5+73-1 g(n) = n2 + 12+5n th: fin = 0 (gin) ala gin = 2 (fin) fin1 = lag 2 (n2) g(n)= 100 lag 3(n) lim log2 (n2) = 4 lim (lag n2)2 = log n3 = 4 h(3) lim ln(1) - [00] = 42h(3) lim 1 hn(2) ~ 20 1/37 - [00] = 432h(2) ~ 000 x3 = [7]=0 Mr.: fin = Olgin) and gin = D fins)

2 (16+1013+8) $\int (x + 10x^{3} + 8) dx \leq \sum_{i=1}^{n} (i + 10i^{3} + 8) \leq \int (x + 10x^{3} - 8) dx$ $\left|\frac{x}{x} + \frac{5x^{4}}{2} + 3x\right|^{2} \leq \left|\frac{x}{x} + \frac{5x^{4}}{2} + \frac{5x^{4}}{2} + \frac{5x^{4}}{2}\right|^{2}$ $\frac{n^{2}}{2} + \frac{5n^{2}}{2} + \frac{3n}{2} + \frac{5}{2} + \frac{5}$ m=14 Tin=471=1+12 Tin = (4T/2) + 7 (Rai n = 1 TINI = \(\frac{1}{17} \) - \(

6. Tin = 4T (=) + 1 = 1 a= 4 b= 7 tin = 1 = 1 f(n) = 0 (nloge a - E) lim ______ = lim _____ = 0, kai 1-8>0 th. Tin = 0 (n lagra")= 0 (n) T(2) + T(2) + N T(n) = 0 (n2) $T(n) = cn^{2}$ $T(\frac{\pi}{6}) < C(\frac{\pi}{6})^{2}$ $T(\frac{\pi}{4}) < C(\frac{\pi}{4})^{2}$ Terlina res galina pasirilto Roslatio konstanto no su luia V > Vº Tin= C 26 + C 23 + n x cn2 Cn2 (36 + 28)+ n x cn Cn . 1769 - Cn 2 2 - h 1 n C> 1767