19.18 an = $\frac{n}{\xi} \frac{(9R-3)^3}{K^4} = \frac{15}{n_{C21}} \left(\frac{\xi 9}{n} + \frac{199}{n} + \frac{108}{n} \right)$	7 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
lin a = 1 69 dx - 1 144 dy + 1 108 dx - 1 24 dx	
= 144-54+9=39	
19.20 $a_n = \sum_{K=1}^n \sin \frac{K}{n^2}$ arcity $\frac{K}{n^3} = \sum_{K=1}^n \min_{K} \frac{K}{n^2}$ arcity $\frac{K}{n^3}$	
$\lim_{n \to \infty} \frac{1}{2} = \frac{1}{n^2} + O(\frac{1}{n^6}) \text{ and } \frac{1}{n^3} = -\frac{1}{n^3} + O(\frac{1}{n^6})$	(3)
$4n = \sum_{k=1}^{\infty} \left(\frac{k}{n^2} + O\left(\frac{k^3}{n^6}\right)\right) \left(-\frac{k}{n^4} + \frac{k^3}{3n^5} + O\left(\frac{k^3}{n^5}\right)\right) \geq 1$	
$=\frac{5}{5}\left(-\frac{\kappa^{2}}{n^{2}}+\frac{\kappa^{4}}{3n^{4}}+O(\frac{\kappa^{3}}{n^{6}})\right)$	
$\int_{0}^{\infty} (-x^{2} + \frac{x^{4}}{3}) dx = \left(-\frac{x^{3}}{3} + \frac{x^{5}}{15}\right) \left[\frac{1}{0} + \frac{1}{7} + \frac{1}{15}\right] = \frac{1}{3}$	15 21
19.23 an = (1) (1+ 5) 2" = 27 ln(1) (1+ 5n))-	
= e : En (14 En) = 6 (14 x) dx	
8 la (14 x) dx = la (12 x), x = 8 x dx = ln 2 - x 10 + 6	Calxiilla = Scanned with Came

