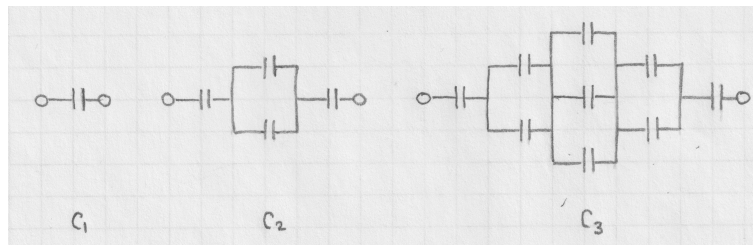


[lex55] Capacitor circuit II

Consider a capacitor circuit of n^2 capacitors, each with capacitance C , constructed according to the pattern shown for $n = 1, 2, 3$. Each column has l capacitors, where l varies between 1 and n .

- (a) Determine the equivalent capacitances C_n for $n = 1, \dots, 4$.
(b) What is the limiting capacitance $C_\infty \doteq \lim_{n \rightarrow \infty} C_n$?



Solution: