1. gyakorlat

$8n^3 \geq 8n^2 \log_2 n \geq 8n^2$

$n \geq 2$

$1{,}5n + 3\sqrt{n} \leq 4{,}5n^2$

$1{,}5n + 3\sqrt{n} \geq n^2$

7/

(a) $2 + 3(n-1) = 3n - 1 \rightarrow 3n$

(b) $2 + 3n(n-1) = 3n^2 - 3n + 2 \rightarrow 3n^2$

(d) $2^i \cdot (n-i) + 2^i \cdot 3 + 2^{i-1} \cdot 3 + \ldots + 3$

$2^n + 3 \sum_{0}^{n-1} 2^i \rightarrow 2^n$