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1 Big Omega

f(n) e BigOmega(g(n)) iff there is a c > o, k f(n) >= Cg(n), n >= k

1.1 Example:

Prove \$ 3n^2 + 2n + 8 e ω {n^2} \$ \$ 3n^2 + 2n + 8 >= Cn^2 where n >= k\$ \$ -2n^2 -2n^2 \$ \$ n^2 + 2n + 8 >= 0 \$ TRUE!

1.2 Another Example:

Prove \$ n^2 -
$$n = (n^2)$$
 \$ \$ n^2 - $n = (n^2)$ \$ c = 1/4 n^2 / 2 - n/2 >= n^2 / 4 n^2 / 4 - n/2 >= 0 n^2 / 4 >= n/2 n >= 2

2 Big O

f(n)e BigO(g(n)) iff there is a $c>o,\,k\;f(n)<=$ Cg(n), n>= k