PAA - Lucas Games dos Pandos - 20.1.4108

4) g(m) = m - 200 g(m) = m - 200

lin $\frac{\log n}{\log \ln n} = \lim_{n \to \infty} \frac{1}{n} = \frac{1}{2}$ $\frac{\log \ln 1}{\log \ln 1} = \lim_{n \to \infty} \frac{1}{n} = \frac{1}{2}$ $\frac{\log \ln 1}{\log \ln 1} = \lim_{n \to \infty} \frac{1}{n} = \frac{1}{2}$ 4) Bun = 2 gin = 2 1 6 mi < = 1 . gin | V = 20 6 mi < = 1 . gin | V = 20 6 mi | V = 20

lim 2 = lim 1 = 1 n+00 2 = lim 1 = 1 lo(n) 70 (g(n)) lo(n) 7 w(g(n)) P(w)= O(J; v)Aw >=0 P(w) x = 1. &(w) Aw >=0 P(w) x = 1. &(w) Aw >=0 P(w) = 5 w, +2 w &(w) = w₅ $\lim_{n \to \infty} \frac{1}{2^{n+1}} = \lim_{n \to \infty} \frac{1}{2$

7)
$$f(m) = 2n + 5m$$
 $f(m) = n^3$
 $f(m) < = 7 \cdot g(n) \forall n > = 0$
 $f(m) > = 1 \cdot g(n) \forall m > = 0$
 $f(m) = 0 \cdot (g(n)) \forall m > = 0$

$$\lim_{n\to\infty} \frac{2^{-n^2+5}n}{n^3} = \lim_{n\to\infty} \frac{2^{+\frac{5}{n}}}{n} = 0$$

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