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 Asymptotic Equivalence Def: $f(n) \sim q(n)$ $\lim_{n\to\infty}\frac{f(n)}{q(n)}=1$ @080 Albert R Meyer April 10, 2013 theOhs.2



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Little Oh:
$$o(\cdot)$$

 $n^2 = o(n^3)$
because
 $\lim_{n \to \infty} \frac{n^2}{n^3} = \lim_{n \to \infty} \frac{1}{n} = 0$





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 Big Oh: O(·) $3n^2 = O(n^2)$ because $\lim_{n\to\infty}\frac{3n^2}{n^2}=3<\infty$ @080 Albert R Meyer April 10, 2013 theOhs.15



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 Theta: $\Theta(\cdot)$ Lemma: $\Theta(\cdot)$ is an equivalence relation @080 Albert R Mever April 10, 2013 theOhs.17

