

Hoja de trabajo 2

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July 26, 2018

1 Ejercicio número 1

$$n \geq 0$$

1. $n^3 \geq n^2$
2. $(n+1)^3 \geq (n+1)^2$
3. $(n+1)(n+1)^2 \geq (n+1)^2$
4. $(n+1) \geq \frac{(n+1)^2}{(n+1)^2}$
5. $(n+1) \geq 1$
6. $n \geq 1-1$
7. $n \geq 0$

2 Ejercicio 2

$$n \geq 0$$

1. $(1+x)^{n+1} \geq nx+1$
2. $(1+x)(1+x)^n \geq nx+1$
3. $(1+x) + x(1+x)^n \geq nx+1$
4. $x(1+x)^n \geq 1$
5. $(1+x)^n \geq \frac{1}{x}$