- $(x+1)^3 \neq x^3+1$

caso base

$(1+1)^3 = 1^3+1$

$2^3 = 1^3+1$

$8 \neq 2$

- $(x+1)^3 = x^3+3x^2+3x+1$

caso base $x=1$

$(1+1)^3 = 1^3+3(1)^2+3(1)+1$

$8 = 1+3+3+1$

$8 = 8$

caso inductivo

$x+1$

$(x+1+1)^3 = (x+1)^3+3(x+1)^2+3(x+1)+1$

$(x+2)^3 = x^3+2x^2+2x+x^2+2x+1$

$x^3+3x^2+3x+1+3(x^2+2x+1)+3(x+1)+1$

$x^3+3x^2+3x+1+3x^2+6x+3+3x+3+1$

$x^3+6x^2+9x+4+3x+3+1$

$x^3+6x^2+12x+\frac{7+1}{8}$

$x^3+2(x^2)(2)+(x)(2)^2+$

$(e)(x)^3+2(x)(2)^2+2^3$

$x^3+4x^2+4x+2x^2+8x+8 =$

$x^3+6x^2+12x+8 =$