

Enunciados

Desarrolla las siguientes expresiones utilizando la fórmula del binomio de Newton.

- ① $(2x+3)^3$
- ② $(x-2)^4$
- ③ $(3x+4)^4$
- ④ $(x-1)^5$
- ⑤ $(x^2+1)^4$
- ⑥ $(x^3-2)^5$
- ⑦ $(3x-5)^3$
- ⑧ $(4x+3)^5$
- ⑨ $(x+1)^6$
- ⑩ $(-x+3)^3$
- ⑪ $(-2x-1)^4$
- ⑫ $(3x+1)^7$
- ⑬ $(x-5)^4$
- ⑭ $(7x+4)^3$
- ⑮ $(5x-3)^4$
- ⑯ $(-3x+5)^4$
- ⑰ $(4x-1)^7$
- ⑱ $(x-1)^8$
- ⑲ $(6x+1)^3$
- ⑳ $(1-2x)^4$
- ㉑ $(2x-3)^7$
- ㉒ $(x^2+2)^5$
- ㉓ $(x^3-3)^5$
- ㉔ $(2x+1)^8$
- ㉕ $(x-3)^8$

Soluciones

- ① $8x^3+36x^2+54x+27$
- ② $x^4-8x^3+24x^2-32x+16$
- ③ $81x^4+432x^3+864x^2+768x+256$
- ④ $x^5-5x^4+10x^3-10x^2+5x-1$
- ⑤ $x^8+4x^6+6x^4+4x^2+1$
- ⑥ $x^{15}-10x^{12}+40x^9-80x^6+80x^3-32$
- ⑦ $27x^3-135x^2+225x-125$
- ⑧ $1024x^5+3840x^4+5760x^3+4320x^2+1620x+243$
- ⑨ $x^6+6x^5+15x^4+20x^3+15x^2+6x+1$
- ⑩ $-x^3+9x^2-27x+27$
- ⑪ $16x^4+32x^3+24x^2+8x+1$
- ⑫ $2187x^7+5103x^6+5103x^5+2835x^4+945x^3+189x^2+21x+1$
- ⑬ $x^4-20x^3+150x^2-500x+625$
- ⑭ $343x^3+588x^2+336x+64$
- ⑮ $625x^4-1500x^3+1350x^2-540x+81$
- ⑯ $81x^4-540x^3+1350x^2-1500x+625$
- ⑰ $16384x^7-28672x^6+21504x^5-8960x^4+2240x^3-336x^2+28x-1$
- ⑱ $x^8-8x^7+28x^6-56x^5+70x^4-56x^3+28x^2-8x+1$
- ⑲ $216x^3+108x^2+18x+1$
- ⑳ $1-8x+24x^2-32x^3+16x^4$
- ㉑ $128x^7-1344x^6+6048x^5-15120x^4+22680x^3-20412x^2+10206x-2187$
- ㉒ $x^{10}+10x^8+40x^6+80x^4+80x^2+32$
- ㉓ $x^{15}-15x^{12}+90x^9-270x^6+405x^3-243$
- ㉔ $256x^8+1024x^7+1792x^6+1792x^5+1120x^4+448x^3+112x^2+16x+1$
- ㉕ $x^8-24x^7+252x^6-1512x^5+5670x^4-13608x^3+20412x^2-17496x+6561$