Enunciados

Factoriza los siguientes polinomios utilizando productos notables.

① x^2+2x+1

② x^2-4x+4

③ x^2-4

④ $9x^6-16$

⑤ $16x^2+40x+25$

⑥ x^4-6x^2+9

⑦ x^2-2x+1

⑧ x^2-1

⑨ $25x^2+30x+9$

⑩ $x^2-12x+36$

⑪ $4x^6-4x^3+1$

⑫ $16x^2-25$

⑬ $4x^2+20x+25$

⑭ $x^2-22x+121$

⑮ $9x^2+60x+100$

⑯ $100x^2-220x+121$

⑰ $81x^2-25$

⑱ $x^2-8x+16$

⑲ $16x^2+72x+81$

⑳ $x^2-10x+25$

㉑ $4x^8+12x^4+9$

㉒ $x^{10}-4$

㉓ $9x^2+6x+1$

㉔ $25x^2-10x+1$

㉕ $36x^2-1$

㉖ $9x^2-100$

Soluciones

① $(x+1)^2$

② $(x-2)^2$

③ $(x+2)(x-2)$

④ $(3x^3+4)(3x^3-4)$

⑤ $(4x+5)^2$

⑥ $(x^2-3)^2$

⑦ $(x-1)^2$

⑧ $(x+1)(x-1)$

⑨ $(5x+3)^2$

⑩ $(x-6)^2$

⑪ $(2x^3-1)^2$

⑫ $(4x+5)(4x-5)$

⑬ $(2x+5)^2$

⑭ $(x-11)^2$

⑮ $(3x+10)^2$

⑯ $(10x-11)^2$

⑰ $(9x+5)(9x-5)$

⑱ $(x-4)^2$

⑲ $(4x+9)^2$

⑳ $(x-5)^2$

㉑ $(2x^4+3)^2$

㉒ $(x^5+2)(x^5-2)$

㉓ $(3x+1)^2$

㉔ $(5x-1)^2$

㉕ $(6x+1)(6x-1)$

㉖ $(3x+10)(3x-10)$