|  |  |
| --- | --- |
| (a + b)2 = a2 + 2ab + b2(a – b)2 = a2 – 2ab + b2(a + b + c)2 = a2 + b2 + c2 + 2ab + 2ac + 2bc(a + b)3 = a3 + 3a2b + 3ab2 + b3(a – b)3 = a3 – 3a2b + 3ab2 – b3ab + ac = a(b + c) | a2 – b2 = (a – b)(a + b)a3 – b3 = (a – b)(a2 – ab + b2)a3 + b3 = (a + b)(a2 – ab + b2)x2 + (a+b)x + ab = (x + a)(x + b)an – bn = (a – b)(an-1 + an-2b + an-3b2 + … + abn-2 + bn-1)an + bn = (a + b)(an-1 – an-2b + an-3b2 – an-4b3 + … + abn-2 + bn-1) |