

## 2.0 Aufgaben zu Binomischen Formeln

2.01	$(a-2)^2$	$a^2-4a+4$
2.02	$(13p+14q)^2$	$169p^2+364pq+196q^2$
2.03	$(7x+9y)^2$	$49x^2+126xy+81y^2$
2.04	$(18e-17f)^2$	$324e^2-612ef+289f^2$
2.05	$(x-15)^2+(x+15)^2$	$2x^2+450$
2.06	$(p-19)^2-(p+19)^2$	$-76p$
2.07	$(a+b)^2-(a^2+b^2)$	$2ab$
2.08	$(13m-12n) \cdot (13m+12n)$	$169m^2-144n^2$
2.09	$(1+x+x^2)^2$	$1+2x+3x^2+2x^3+x^4$
2.10	$(a^2-a+1)^2$	$a^4-2a^3+3a^2-2a+1$
2.11	$(r-3s)^3$	$r^3-9r^2s-27rs^2-27s^3$
2.12	$(w+8v)^3$	$w^3+24w^2v+192wv^2+512v^3$
2.13	$(7a+9b)^3$	$343a^3+1323a^2b+1701ab^2+729b^3$
2.14	$(4c-6d)^3$	$64c^3-288c^2d+432cd^2-216d^3$
2.15	$(a-1)^3-(a+1)^3$	$-6a^2-2$
2.16	$(2x+5)^3-(2x-5)^3$	$120x^2+250$
2.17	$(17p+13q) \cdot (13q+17p)$	$289p^2+442pq+169q^2$
2.18	$(1,4m-1,5n) \cdot (1,5n+1,4m)$	$1,96m^2-2,25n^2$
2.19	$(\frac{1}{4}e+\frac{1}{2}f)^2+(\frac{3}{4}e-\frac{1}{2}f)^2$	$5/8e^2-1/2ef+1/2f^2$
2.20	$(\frac{4}{5}a-\frac{1}{2}b)^2-(\frac{2}{5}a+\frac{1}{2}b)^2$	$12/25a^2-6/5ab$
2.21	$(14k-17l)(14k+17l)-(14k+17l)^2$	$-476kl-578l^2$
2.22	$(a+b+c)^2-(a-b+c)^2+(a+b-c)^2$	$a^2+b^2+c^2+6ab-2ac+2bc$
2.23	$(x+5)^2-(x-5)^2-(x+5)(x-5)$	$25+20x-x^2$