

<b>M</b>	<b>Binomische Formeln</b>							<b>L</b>	
		<b>a</b>	<b>b</b>	<b>a<sup>2</sup></b>	+	<b>2ab</b>	+	<b>b<sup>2</sup></b>	<b>ohne TR!</b>
1)	$32^2 =$	30	2	900	+	120	+	4	= <b>1'024</b>
2)	$41^2 =$	40	1	1'600	+	80	+	1	= <b>1'681</b>
3)	$301^2 =$	300	1	90'000	+	600	+	1	= <b>90'601</b>
4)	$202^2 =$	200	1	40'000	+	400	+	1	= <b>40'401</b>
5)	$1003^2 =$	1'000	3	1'000'000	+	6'000	+	9	= <b>1'006'009</b>
6)	$401^2 =$	400	1	160'000	+	800	+	1	= <b>160'801</b>
7)	$302^2 =$	300	2	90'000	+	1'200	+	4	= <b>91'204</b>
8)	$108^2 =$	100	8	10'000	+	1'600	+	64	= <b>11'664</b>
Vergiss die Operationszeichen nicht!									
9)	$(x + y)^2 =$	<b>x<sup>2</sup></b>		+	<b>2 x y</b>		+	<b>y<sup>2</sup></b>	
10)	$(9 - x)^2 =$	<b>81</b>		-	<b>18 x</b>		+	<b>x<sup>2</sup></b>	
11)	$(2x + 5)^2 =$	<b>4 x<sup>2</sup></b>		+	<b>20 x</b>		+	<b>25</b>	
12)	$(5u - 3v)^2 =$	<b>25 u<sup>2</sup></b>		-	<b>30 u v</b>		+	<b>9v<sup>2</sup></b>	
13)	$(p + 0,1q)^2 =$	<b>p<sup>2</sup></b>		+	<b>0.2 p q</b>		+	<b>0.01 q<sup>2</sup></b>	
14)	$(0,9x + 0,2)^2 =$	<b>0.81 x<sup>2</sup></b>		+	<b>0.36 x</b>		+	<b>0.04</b>	
15)	$(x + y + z)^2 =$	<u><math>(x + y + z) (x + y + z)</math></u>							
<b>x<sup>2</sup> + y<sup>2</sup> + z<sup>2</sup> + 2xy + 2xz + 2yz</b>									
16)	$(2x + 3y + 4z)^2 =$	<u><math>(2x + 3y + 4z) (2x + 3y + 4z)</math></u>							
<b>4x<sup>2</sup> + 9y<sup>2</sup> + 16z<sup>2</sup> + 12xy + 16xz + 24yz</b>									
Vergiss die Operationszeichen nicht!									
17)	$19^2 =$	20	1	400	-	40	+	1	= <b>361</b>
18)	$29^2 =$	30	1	900	-	60	+	1	= <b>841</b>
19)	$199^2 =$	200	1	40'000	-	400	+	1	= <b>39'601</b>
20)	$498^2 =$	500	2	250'000	-	2'000	+	4	= <b>248'004</b>