**Gleichungen mit binomischen Formeln** (Lösungsmenge und Probe nicht vergessen! G = **Q**)

1. $(x + 2)^2 = x^2 + 4$

2. $(x - 2)^2 = x^2 + 12$

3. $(x + 2)^2 = (x - 2)^2$

4. $(x + 2)^2 = (x + 2)(x - 2)$

5. $(x + 4)^2 = (x - 4)^2 - 32$

6. $(x - 4)^2 = (x - 4)(x + 4) + 24$

7. $(2x - 5)^2 - (2x + 3)(2x - 3) = 4$

8. $(3z + 4)^2 - (3z - 8)(3z + 8) = 4z$

9. $(2y - 3)^2 = (2y + 4)(2y - 4) - (12y - 25)$

10. $(5u - 2)^2 = (5u - 4)(5u + 4) - (12u - 28)$

11. $(3x + 4)^2 = (5x - 3)^2 - (4x - 7)^2$

12. $(4 - 3z)^2 - (5z^2 + 7) = (2z + 3)^2$

13. $(4x - 5)^2 = (5x + 1)^2 - (3x + 8)^2$

14. $9(x - 3)^2 + 4((2x + 1)^2 = (5x - 2)^2$