

Überblick über die wichtigsten Rechenregeln:

- 1) $a(bc) = (ab)c = abc$
- 2) $a + (b + c) = (a + b) + c = a + b + c$
- 3) $ab = ba$
- 4) $a + b = b + a$
- 5) $a(b + c) = ab + ac$
- 6) $a + (bc) = a + bc \neq (a + b)c$
- 7) $a - b = a + (-b) = -b + a$
- 8) $-(-a) = a$
- 9) $a - (-b) = a + (-(-b)) = a + b$
- 10) $(-a)b = a(-b) = -ab$
- 11) $(-a)(-b) = -a(-b) = ab$
- 12) $a + (-b + c) = a - b + c$
- 13) $a - (b + c) = a - b - c$
- 14) $a - (b - c) = a - b + c$
- 15) $a - (-b + c) = a + b - c$
- 16) $-(a - b) = -a + b = b - a$
- 17) $(a + b)(c + d) = a(c + d) + b(c + d) = ac + ad + bc + bd$
- 18) $(a + b)(c - d) = a(c - d) + b(c - d) = ac - ad + bc - bd$
- 19) $(a - b)(c - d) = a(c - d) - b(c - d) = ac - ad - bc + bd$
- 20) $(a + b)^2 = a^2 + 2ab + b^2$
- 21) $(a - b)^2 = a^2 - 2ab + b^2$
- 22) $(a + b)(a - b) = a^2 - b^2$