

# Binomische Formeln

*Lösungsblatt*

$(a + b)^2 = a^2 + 2ab + b^2$	$(a - b)^2 = a^2 - 2ab + b^2$	$(a + b) \cdot (a - b) = a^2 - b^2$
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$(3a + 2b)^2 = 9a^2 + 12ab + 4b^2$	$(a - 14b)^2 = a^2 - 28ab + 196b^2$
$(6c + 3d)^2 = 36c^2 + 36cd + 9d^2$	$(20c - 2d)^2 = 400c^2 - 80cd + 4d^2$
$(4e - 6f)^2 = 16e^2 - 48ef + 36f^2$	$(e + 2f)^2 = e^2 + 4ef + 4f^2$
$(-g + 2h)^2 = g^2 - 4gh + 4h^2$	$(2g - 5h)^2 = 4g^2 - 20gh + 25h^2$
$(7i - 3j)^2 = 49i^2 - 42ij + 9j^2$	$(15i - j)^2 = 225i^2 - 30ij + j^2$
$(10m + n)^2 = 100m^2 + 20mn + n^2$	$(10m - 2n)^2 = 100m^2 - 40mn + 4n^2$
$(2p - 2q)^2 = 4p^2 - 8pq + 4q^2$	$(-8p - 6q)^2 = 64p^2 + 96pq + 36q^2$
$(-8r + 5s)^2 = 64r^2 - 80rs + 25s^2$	$(3r - 9s)^2 = 9r^2 - 54rs + 81s^2$
$(9u + 4v)^2 = 81u^2 + 72uv + 16v^2$	$(5u - 4v)^2 = 25u^2 - 40uv + 16v^2$
$(-12x - 3y)^2 = 144x^2 + 72xy + 9y^2$	$(x + 5y)^2 = x^2 + 10xy + 25y^2$

Male die Lösungen an!

$36c^2 + 36cd + 9d^2$	$g^2 - 4gh + 4h^2$	$225i^2 - 30ij + j^2$	$100m^2 - 40mn + 4n^2$
$x^2 + 10xy + 25y^2$	$25u^2 - 40uv + 16v^2$	$9a^2 + 12ab + 4b^2$	$81u^2 + 72uv + 16v^2$
$16e^2 - 48ef + 36f^2$	$144x^2 + 72xy + 9y^2$	$9r^2 - 54rs + 81s^2$	$e^2 + 4ef + 4f^2$
$64r^2 - 80rs + 25s^2$	$4g^2 - 20gh + 25h^2$	$a^2 - 28ab + 196b^2$	$100m^2 + 20mn + n^2$
$400c^2 - 80cd + 4d^2$	$49i^2 - 42ij + 9j^2$	$4p^2 - 8pq + 4q^2$	$64p^2 + 96pq + 36q^2$