Klammern – 20 (Lösung)

Berechne:

a) $(a + 7)(11 + a) =$
$11a + a^2 + 77 + 7a =$
$\underline{a^2 + 18a + 77}$

b) $(x - 9)(x + 14) =$
$x^2 + 14x - 9x - 126 =$
$\underline{x^2 + 5x - 126}$

c) $(3u + 9v)(5u - 6v) =$
$15u^2 - 18uv + 45uv - 54v^2 =$
$\underline{15u^2 - 54v^2 + 27uv}$

d) $(-x + 8y)(3y - 6x) =$
$-3xy + 6x^2 + 24y^2 - 48xy =$
$\underline{6x^2 + 24y^2 - 51xy}$

e) $(-5a - 3b)(-a + 5b) =$
$5a^2 - 25ab + 3ab - 15b^2 =$
$\underline{5a^2 - 15b^2 - 22ab}$

f) $(3x + 2)(9 + 4x) =$
$27x + 12x^2 + 8x + 18 =$
$\underline{12x^2 + 35x + 18}$

g) $(5a - 2b)(a + 3b) =$
$5a^2 + 15ab - 2ab + 6b^2 =$
$\underline{5a^2 + 6b^2 + 13ab}$

h) $(10s - 12t)(4t + 5s) =$
$40st + 50s^2 - 48t^2 - 60st =$
$\underline{50s^2 - 48t^2 - 20st}$