Algebra – Stadt – Land – Fluss

	Lineare Gleichung[1]	Quadratische Gleichung[2]	Lineare Funktion: y → g(x)	Quadratische Funktion: y → f(x)	Analysis
A	$x + 3 = 6$	$3x^2 - 47 = 1$	$x + 2y = 4$	$13x^2 - y = 1$	Skizze
B	$y + y + y = 6$	$(s - 3)^2 = 2s^2 - 3(s + 2)$	$-2x + y = -3(y + x)$	$(x - 5)^2 + 3y = 8x^2 - 8(y + 2)$	Nullstelle(n)
C	$t - 4 = -9$	$(2x + 2)(3 + 2x) - (x - 3)^2 = 5x$	$2x + 3y = 2(4y - 3x) + x$	$(x + 2)(3 + x) - (5x - 3)^2 = 5y$	Skizze
D	$4k - 4{,}2 = 16{,}5$	$t^2 - 6t + 1 = 1$	$x + 2y - 1 + 5xy = x(5y - 2)$	$x^2 - 6x + 2y = 1{,}4y - 0{,}7(y + x)$	Nullstelle(n)
E	$-\frac{1}{3}d = -\frac{3}{4}(d + 0{,}5d - 2\frac{1}{4})$	$\frac{2x^2}{18} = 576$	$-2x + 2y = -7[x + 1{,}2 - (0{,}8 - y)]$	$\frac{y + x^2}{18} = 576 + y$	Schnittpunkt(e)
F	$-\frac{1}{3}w = -\frac{5}{9} \cdot 2w + 7$	$\frac{3}{5} = \frac{15}{u^2}$	$-\frac{1}{7}x + 2y = -\frac{1}{8}$	$(x - 4)^2 = 121y - 4x$	Skizze
G	$3x + 27 = 5 + 7x$	$j^2 = 225$	$9x + 7y = -2{,}2[x + 1{,}2 - (-y + x)]$	$(7x + 18)^2 = 225y$	Nullstelle(n)
H	$-4n + 2(n - 16) = -3$	$z^2 - 10z + 16 = 0$	$3x + 5y = 5y - (x + x - y + 2y)$	$x^2 - 10x + 16y = -x(x + 6) - y$	Skizze
I	$-4 + 3x = -1 + 5x$	$2r^2 + 6r - 20 = r$	$3x + 0{,}4y = 19 + x$	$13x^2 - y = 1 - 2y + 2(x^2 - 3y)$	Skizze
J	$5(2 - 4x) + 2{,}1 = 5 + 7{,}3x$	$(a + 3)^2 = 81{,}6$	$-5{,}5x - (3y - 6) = -9(y + 8) + x$	$(x - 5)^2 + 19y = 3x^2 - 8(y + 0{,}7)$	Skizze
K	$17 + 20a = 237 \cdot (-12a)$	$(x - 4)^2 = 121$	$225y = 20(41y - 33x) + 111x$	$(x + 21)(73 + 3x) - (x - 6{,}6)^2 = -8y$	Nullstelle(n)
L	$2(3 - 2x) + 3x = -5$	$-3e^2 + 33e = 90$	$x + 2y - 1 + 8y = x(8 - 2) + 4 \cdot 3y$	$5x^2 - x + 65y = 10y - 7(3 + 2x)$	Schnittpunkt(e)
M	$-\frac{x}{3} + x = -\frac{2}{9} + \frac{5}{10} - x$	$b^2 + 12b + 36 = 81$	$-\frac{6}{11}x + y = -\frac{10}{7}(\frac{1}{3}y + 5x)$	$\frac{5y + 10x^2}{10} = 57 + 1{,}6y$	Schnittpunkt(e)
N	$-\frac{17}{50}m + 1 = \frac{51}{500}$	$h^2 - 14h = -33$	$-\frac{1}{9}x + 2y = -\frac{5}{8} - \frac{3}{8}x + 8y$	$(x - 0{,}6)^2 = 11y - 3x + 12{,}4$	Skizze
O	$-\frac{121}{66}x + 5\frac{5}{9} = -77x$	$-\frac{1}{7}i^2 + i = -\frac{10}{7}$	$-\frac{6}{11}x + 6y - 0{,}8 = -\frac{5}{16}(\frac{2}{5}y + 0{,}8x)$	$5(x + 3)^2 = 25 + 5y$	Nullstelle(n)
P	$-5x = 3(-2x - 2) + 2 + 2x$	$3c(c + 1{,}1) - (10 - c) = 9{,}9 + 2c$	$-3x + y = 17y - (0{,}5x + 2x + 2y)$	$x^2 - 10x + 16y = -x(x + 4) + 7y$	Skizze
Q	$4x + 2 = 2x + 10$	$(3g + 4)^2 = 121$	$7x + 99y = 440 + 55x - 97y$	$13x^2 - y = 11 + 5(x - 5y) - 5x + 5x^2$	Schnittpunkt(e)
R	$3f + 1 + 4f = 4f + 9 - 3f$	$x^2 + 6x = 13$	$-x + 7y = -3(1{,}1y + 7{,}4x) - 3$	$(0{,}4x - 5)^2 + 3y = 7x^2 - 8(y + 2)$	Skizze
S	$7x + 7 - 3x = 23$	$9r^2 - 24r + 16 = 121$	$6{,}4(4{,}3y - 3{,}8x) + x = 7(4x + 8y)$	$(4x + 25)(37 + 7x) - (x - 3)^2 + y = 5y$	Nullstelle(n)
T	$5{,}7x = -(4x + 1)(7{,}7 - 0{,}8)$	$-7c^2 - 81c = 44$	$-2y - 1 + 6x + 8xy = 2x(4y - 2{,}7)$	$0{,}7(7x^2 - 21x + 63y) = 4y - 8(7x + 3{,}5)$	Skizze
U	$-3(a - 2) = 2(3a + 6)$	$(2h + 7)^2 = 169$	$-6[x + 82 - (77 - y)] = x + 12 - 33y$	$(-31 - x)^2 + 9y^2 = -(4x + 7)^2 + (3y)^2 - y$	Schnittpunkt(e)
V	$-\frac{1}{3}x(5{,}23x - x) = -\frac{5x}{17}$	$-\frac{k}{3} + k^2 = \frac{2}{9} + \frac{5}{10} - 11k^2 - (\frac{5}{10}k)^2$	$-\frac{61}{122}x + 2y = -\frac{1}{8}y + 67(\frac{1}{67} - y)$	$\frac{1(y + x^2)}{4(y + x^2)} + \frac{2(6y + 6x^2)}{3} = 64 + 6y - \frac{x + 6y}{8}$	Skizze
W	$4 + 10d = 124$	$(2e - 5)^2 = e(e - 9) + 19$	$\frac{y}{16} + y = -7\frac{5}{7}(y + 5\frac{1}{3}x)$	$(x + 16)^2 = 196y + x \cdot x + 3x \cdot 5x$	Nullstelle(n)
X	$-\frac{1}{3}v + 0{,}5v = 5v - 4\frac{5}{9}$	$\frac{5}{9} - (8q^2 + 20q) = 7\frac{1}{7}q^2$	$3x + 4y = 5y - (x + x - y + 2y)$	$6x^2 - 10x + 16y = -x(x + y) + xy$	Skizze
Y	$3(-2 - p) = -2p + 4$	$-\frac{1}{3}b^2 - 2b - 3 = 0$	$2{,}1(4{,}8y - 5{,}7x) + x = 36x + 45y$	$(x - 3)(-3 + x) - (23x - 8)^2 = 49y$	Nullstelle(n)
Z	$5z - 10 + 7z - 11 = 3$	$4d^2 - 28d + 49 = 169$	$0{,}5[2(4y - 3x) + 4x] = 2x + 2{,}2x - y$	$13x^2 - y = -[-1(x + y)] + 15$	Skizze

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