

2 Lineare Gleichungen

1 Löse die Gleichungen.



a) $x - 5 = 25$

b) $x - 3 = 3$

c) $x - 9 = 0$

d) $x - 12 = -13$

e) $3x - 4 = 11$

f) $2x - 5 = -15$

g) $7x - 5 = -26$

h) $25 - 6x = 1$

i) $-8 - 5x = -13$

2 Löse die Gleichungen.



a) $3x + 7 = 8x + 2$

b) $7x + 5 = 2x + 20$

c) $4x + 3 = 2x - 5$

d) $6x + 1 = 2 - 3x$

e) $7x - 2 = 1 - 3x$

f) $5 - x = 2x - 7$

g) $2 + 8x = 5 - x$

h) $1 - 10x = 6 - 5x$



5**Löse die Gleichungen.**

a) $3x + 3 - 2 + 4x = 15 + 5x - 2 - x$

b) $-4x + 3x - 7 + 9 - x = 8 + 9x + 4 - 16x$

c) $7x - 4 - 9x + 2 = -10 + 4x + 2$

d) $9x + 4 - 2 - 8x = 6x - 2 - 6x + 14$

e) $5 - x + 10 - x = 20 + 2x - 5 - 2x$

f) $17x - 21 - 7x - 9 = -2x - 15 + 4x - 7$

6**Löse die Gleichungen.**

a) $2(x + 1) = 10$

b) $3(x + 4) = 27$

c) $4(x - 2) = 8$

d) $2(3x - 1) = 10$

e) $18 = 2(2x + 3)$

f) $5(1 + 2x) = 10$

7**Löse die Gleichungen.**

a) $9 - (x + 6) = 2$

b) $4x - (2x + 9) = 3$

c) $3x + 11 - (15 - 5x) = 5 - x$

d) $6x - 2(3x - 1) = 4x$

e) $3(1 - x) - (3 + x) = 0$

f) $9 - 3(2x + 1) = -6$

8**Löse die Gleichungen.**

a) $3(x + 4) = 2(x + 5)$

b) $7(x + 2) = 4(x + 5)$

c) $4(1,5 - 3x) = 9(3 + x)$

d) $7(2x + 1) = 2(5 + 4x)$

e) $4(x + 1) + 2(1 - x) = x$

f) $3x + 2(2x + 1) = 4(3 + x) - 1$

9**Löse die Gleichungen.**

a) $x^2 - (x + 3)(x - 2) = 7$

b) $(x + 5)(x - 2) = x^2 - 1$

c) $(2x - 1)(x + 2) = 2x^2 + 10$

d) $(x + 1)^2 = (x + 1)(x - 1)$

e) $(x - 1)^2 = (x - 3)(x + 3)$

f) $(x + 3)(x + 7) = (x + 2)(x + 9)$

