

AB Gleichungen mit x auf beiden Seiten

1 Löse die Gleichung.

a) $3x - 2 = x + 10$ | $-x$
 $2x - 2 = 10$ | _____
 _____ = _____ | $: 2$
 $x =$ _____

b) $4x + 3 = x + 6$ | $-x$
 _____ + 3 = _____ | -3
 _____ = _____ | $: 3$
 $x =$ _____

c) $3x + 12 = x + 18$ | $-x$
 _____ + 12 = _____ | -12
 _____ = _____ | $: 2$
 $x =$ _____

d) $5x + 1 = 2x + 13$ | $-2x$
 _____ + 1 = _____ | -1
 _____ = _____ | $: 3$
 $x =$ _____

e) $6x + 2 = 2x + 10$ | $-2x$
 _____ + 2 = _____ | -2
 _____ = _____ | $: 4$
 $x =$ _____

f) $7x + 3 = 5x + 13$ | $-5x$
 _____ + 3 = _____ | -3
 _____ = _____ | $: 2$
 $x =$ _____

2 Löse die Gleichung.

a) $4x - 1 = 2x + 5$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

b) $5x + 1 = x + 9$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

c) $3x - 3 = x + 7$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

d) $5x + 2 = 3x + 8$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

e) $4x + 4 = x + 16$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

f) $7x - 7 = 3x + 17$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

g) $15x + 13 = 7x + 69$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

h) $17x + 4 = 5x + 40$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

i) $19x + 16 = 11x + 80$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

3 Fasse zuerst gleichartige Summanden zusammen. Löse dann die Gleichung.

a) $7x - 13 + x + 1 = 3x + 18$
 _____ = _____ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

b) $5x + 3 - 2x - 5 = x + 13$
 _____ = _____ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

c) $2x - 2 + 4x + 6 = 3x + 19$
 _____ = _____ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

d) $3x - 2 + 3x - 1 = 8 + 2x + 9$
 _____ = _____ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

e) $x - 5 + 2x + 2 = 3x + 3 - 2x + 4$
 _____ = _____ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____

f) $5x - 1 - x - 1 = -2x - 6 + 3x - 2$
 _____ = _____ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 $x =$ _____