Lösungen zu den Übungen zu lineare Gleichungen I

2x = 6	2x = 6 /:2
	⇔ x = 3
x + 4 = 8	x + 4 = 8 / -4
	⇔ x = 4
3x - 6 = 9	3x - 6 = 9 / + 6
	⇔ 3x = 15 /:3
	⇔ x = 5
-4x + 8 = 12	-4x + 8 = 12 / -8
	$\Leftrightarrow -4x = 4 /:(-4)$
	⇔ x = −1
5x + 7 = -3	5x + 7 = -3 / -7
	⇔ 5x = −10 /:5
	⇔ x = −2
-8x + 6 = -10	-8x + 6 = -10 / -6
	$\Leftrightarrow -8x = -16 / :(-8)$
	⇔ x = 2
-4-5x = -20	-4-5x = -20/+4
	$\Leftrightarrow -5x = -16 / : (-5)$
	$\Leftrightarrow x = \frac{16}{5} = 3.2$
-3x - 12 = 15	-3x - 12 = 15 / +12
	⇔ −3x = 27 /:(−3)
	⇔ x = −9
-4x + 2 = 50 - 16x	-4x + 2 = 50 - 16x / +16x
	⇔ 12x + 2 = 50 /−2
	⇔ 12x = 48 /:12
	⇔ x = 4
12x + 2 - 6x = -2x + 4	12x + 2 - 6x = -2x + 4
	\Leftrightarrow 6x + 2 = -2x + 4 /+2x /-2
	$\Leftrightarrow 8x = 2/:8$
	⇔ x = 0,25
3x - 9x + 2 = 16x - 30x - 6	3x - 9x + 2 = 16x - 30x - 6
	\Leftrightarrow -6x + 2 = -14x - 6 /-2 /+14x
	$\Leftrightarrow 8x = -8 /: (-8)$
	⇔ x = −1