**Gleichsetzungsverfahren IV**

**Löse folgende Gleichungssysteme mit dem Gleichsetzungsverfahren.**

|  |  |
| --- | --- |
| I. y = -6x – 25II. 15x + y = - 43 |-15xI. y = -6x – 25II. y = -15x - 43-6x – 25 = -15x – 43 |+15x +25 9x = -18 |:9 x = -2in I: y = 12 – 25 = -13L = {-2, -13} | I. y - 30 = -4x |+30II. y + 10x = 78 |-10xI. y = -4x + 30II. y = 78 – 10x-4x + 30 = 78 – 10x |+10x-30 6x = 48 |:6 x = 8in I: y = -32 + 30 = -2L = {8, -2} |
| I. y = 15x + 157II. y – 77 = 7x |+77I. y = 15x + 157II. y = 7x + 7715x + 157 = 7x + 77 |-7x -157 8x = -80 |:8 x = -10in I: y = -150 + 157 = 7L = {-10, 7} | I. y = 7x - 76II. y + 13x = 124 |-13xI. y = 7x - 76II. y = 124 – 13x7x – 76 = 124 – 13x |+13x+76 20x = 200 |:20 x = 10in I: y = 70 – 76 = -6L = {10, -6} |
| I. -12 = -14x – y |+y + 12II. y + 1 = -x |-1I. y = -14x + 12II. y = -x – 1-14x + 12 = -x – 1 |+x - 12 -13x = -13 |:(-13) x = 1in II: y = -1 - 1 = -2L = {1, -2} | I. y + 11 = 2x |-11II. y = 5x - 5I. y = 2x - 11II. y = 5x - 52x – 11 = 5x – 5 |-2x + 5 -6 = 3x |:3 -2 = xIn II: y = -10 – 5 = -15L = {-2, -15} |
| I. -36 = 12x – y |+y + 36II. -5x = y - 2 |+2I. y = 12x + 36II. y = -5x + 212x + 36 = -5x + 2 |+5x - 36 17x = -34 |:17 x = -2L = {-2, 12} | I. y + 2x = 0 |-2xII. -5x = y + 6 |-6I. y = -2xII. y = -5x - 6-2x = -5x – 6 |+5x 3x = - 6 |:3 x = - 2in I: y = 4L = {-2, 4} |