**Einsetzungsverfahren V**

**Löse folgende Gleichungssysteme mit dem Einsetzungsverfahren.**

|  |  |
| --- | --- |
| I. y = -12x - 87II. x = -11y + 91I. in II.x = -11(-12x – 87) + 91 |Tx = 132x + 957 + 91 |Tx = 132x + 1048 |-1048 - x-1048 = 131x |:131 x = -8in I.y = 96 – 87 = 9L = {-8, 9} | I. y = 9x - 139II. x = -5y - 5I. in II.x = -5(9x – 139) – 5 |Tx = -45x + 695 – 5 |Tx = -45x + 690 |+45x46x = 690 |:46 x = 15in I.y = 135 – 139 = -4L = {15, -4} |
| I. y = x + 2II. x = 8y – 30I. in II.x = 8(x + 2) – 30 |Tx = 8x + 16 – 30 |Tx = 8x – 14 |-8x-7x = - 14 |:(-7) x = 2in I.y = 2 + 2 = 4L = {2, 4} | I. y = -3x + 18II. x = 15y - 132I. in II.x = 15(-3x + 18) + 18 |Tx = -45x + 270 + 18 |Tx = -45x + 288 |+45x46x = 288 |:46 x = 3in I.y = -9 + 18 = 9L = {3, 9} |
| I. y = -8x - 73II. x + 11y= – 67 |-11yII. x = -11y - 67I. in II.x = -11(-8x + 73) - 67 |Tx = 88x – 803 - 67 |Tx = 88x – 870 |-88x-87x = -870 |:(-87) x = 10in I.y = -80 – 73 = - 153L = {10, -153} | I. y = 2x + 20II. x + 23 = -6y |-23II. x = -6y – 23I. in II.x = -6(2x + 20) - 23 |Tx = -12x – 120 - 23 |Tx = -12x – 143 |+12x13x = - 143 |:13 x = - 11in I.y = -22 + 20 = -2L = {-11, -2} |
| I. y - 27= -7x |+27II. x = 12y + 186I. y = -7x + 27I. in II.x = 12(-7x + 27) + 186weiter wie oben:L = {6, -15} | I. y + 2 = -2x |-2II. x = 3y + 6I. y = -2x - 2I. in II.x = 3(-2x – 2) + 6 weiter wie oben:L = {0, -2} |