**Einsetzungsverfahren VI**

**Löse folgende Gleichungssysteme mit dem Einsetzungsverfahren.**

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| I. x + y = 4 |- yII. 2x + 5y = 17I. x = 4 - yI. in II.2(4 – y) + 5y = 17 |T8 – 2y + 5y = 17 |T8 + 3y = 17 |-8 3y = 9 |:3 y = 3in I.x = 4 – 3 = 1L = {1, 3} | I. 5x + y = 24 |-5xII. 3x + 6y = 36I. y = -5x + 24I. in II.3x + 6(-5x + 24) = 36 |T3x – 30x + 144 = 36 |T-27x + 144 = 36 |+27x-36 108 = 27x |:27 x = 4in I.y = -20 + 24 = 4L = {4, 4} |
| I. x + y = 12 |-xII. 6x + 4y = 58I. y = 12 - xI. in II.6x + 4(12 – x) = 58 |T6x + 48 – 4x = 58 |T2x + 48 = 58 |-48 2x = 10 |:2 x = 5in I.y = 12 – 5 = 7L = {5, 7} | I. x + 4y = 43 |-4yII. 8x + 2y = 74I. x = 43 – 4yI. in II.8(43 – 4y) + 2y = 74 |T344 – 32y + 2y = 74 |T344 – 30y = 74 |-344-30y = -270 |:(-30) y = 9in I.x = 43 – 36 = 7L = {7, 9} |
| I. x + 9y = 36 |-9yII. 4x + 7y = 57I. x = 36 - 9yI. in II.4(36 - 9y) + 7y = 57 |T144 – 36y + 7y = 57 |T144 – 29y = 57 |-144 -29y = -87 |:(-29) y = 3in I.x = 36 – 27 = 9L = {9, 3} | I. x + y = 8 |-xII. 8x + 6y = 58I. y = 8 - xI. in II.8x + 6(8 – x) = 58 |T8x + 48 – 6x = 58 |T2x + 48 = 58 |-482x = 10 |:2 x = 5in I.y = 8 – 5 = 3L = {5, 3} |