**Lineare Gleichungen mit zwei Variablen – Übungen I**

**Forme um und bestimme die Lösungsmenge.**

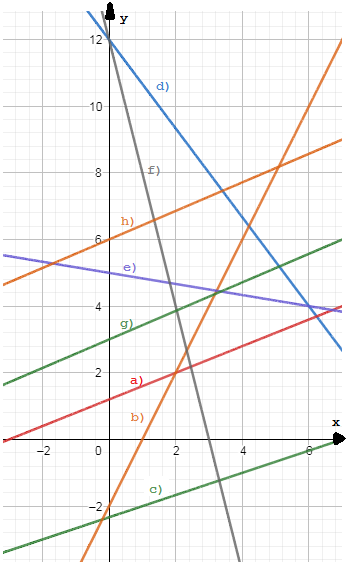
|  |  |
| --- | --- |
| **a) 2x - 5y = -6 |-2x**  **- 5y = -2x - 6 |:(-5)**  **y = 0,4x + 1,2**  **L = {(x|y)|y = 0,4x + 1,2}** | **b) - 2x + y = -2 |+2x**  **y = 2x - 2**  **L = {(x|y)|y = 2x - 2}** |

|  |  |
| --- | --- |
| **c) 3x - 9y = -21 |-3x**  **- 9y = -3x - 21 |:(-9)**  **y = x – 2**  **L = {(x|y)|y = x – 2 }** | **d) - 8x - 6y = -72 |+8x**  **- 6y = 8x -72 |:(-6)**  **y = - 1x + 12**  **L = {(x|y)|y = - 1x + 12}** |

|  |  |
| --- | --- |
| **e) x + 6y = 30 |-x**  **6y = -x + 30 |:6**  **y = -x + 5**  **L = {(x|y)|y = -x + 5}** | **f) - 4x - y = -12 |+4x**  **- y = 4x – 12 |:(-1)**  **y = -4x + 12**  **L = {(x|y)|y = -4x + 12}** |

|  |  |
| --- | --- |
| **g) 3x - 7y = -21 |-3x**  **- 7y = -3x - 21 |:(-7)**  **y = x + 3**  **L = {(x|y)|y = x + 3}** | **h) - 3x + 7y = 42 |+3x**  **7y = 3x + 42 |:7**  **y = x + 6**  **L = {(x|y)|y = x + 6}** |

**Zeichne die zugehörigen Graphen**

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