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

**Forme folgende lineare Gleichungen um und bestimme die zugehörige Funktionsgleichung. Fülle dann die Tabellen aus, und zeichne den zugehörigen Graphen in das Koordinatensystem.**

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**a) 2x - 10 = 4y – 2**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**b) 6x + 8y = 24 - 2x**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**c) 5 (x + y) = x – y**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**d) 6 (x - y) = 12 (y + x)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**e) 5 (x + 2y - 2) = 2 (-x - 5y - 4)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**f) 3 (4y - 1,5x) = 1,2**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**g) (x - 2) : (y + 4) = 12 : 8**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**h) (3x + 1) : (3y + 5) = 4 : 5**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **-2** | **-1** | **0** | **1** | **2** | **3** |
| **y** |  |  |  |  |  |  |

 **y = \_\_\_\_\_\_\_\_**

**Zeichne die zugehörigen Graphen:**

