**Zuordnungen – Funktionen IV**

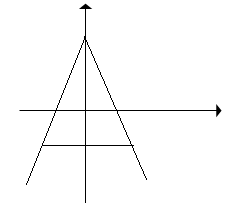
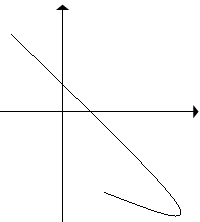
1. Aufgabe: Stelle folgende Funktionen mit Hilfe des Graphen und der Tabelle dar.

Gib die Zahlmenge für die Definitions- und Wertemenge a, wenn G = ℚ

|  |  |
| --- | --- |
| a) x → 2x - 1 | b → 1,5 b + 1 |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | X | -1 | 0 | 1 | 2 | | y |  |  |  |  | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | X | -1 | 0 | 1 | 2 | | y |  |  |  |  | |
| Graph: | Graph: |

2. Aufgabe: Sind folgende Graphen jeweils Funktionen? Kreuze an!

a) b)

ja nein ja nein

3. Aufgabe: Welcher Punkt gehört zum Graphen der gegebenen

Funktion? Kreuze an!

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| a) f(x) = x - 2 | | | | | | | | | | | |
| A (1|1) | | B (4|- 8) | | C (12|0) | | D (1|-2,5) | | E (1|0) | | F (1|- 1) | |
| ja | nein | ja | nein | ja | nein | ja | nein | ja | nein | ja | nein |
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| b) f(x) = 2x - 1 | | | | | | | | | | | |
| A (1|1) | | B (4|- 8) | | C (12|0) | | D (1|-2,5) | | E (1|0) | | F (1|- 1) | |
| ja | nein | ja | nein | ja | nein | ja | nein | ja | nein | ja | nein |
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| c) f(x) = -3x + 4 | | | | | | | | | | | |
| A (1|1) | | B (4|- 8) | | C (12|0) | | D (1|-2,5) | | E (1|0) | | F (1|- 1) | |
| ja | nein | ja | nein | ja | nein | ja | nein | ja | nein | ja | nein |
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| d) f(x) = 0,5x - 6 | | | | | | | | | | | |
| A (1|1) | | B (4|- 8) | | C (12|0) | | D (1|-2,5) | | E (1|0) | | F (1|- 1) | |
| ja | nein | ja | nein | ja | nein | ja | nein | ja | nein | ja | nein |
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| e) f(x) = 0,75x - 0,75 | | | | | | | | | | | |
| A (1|1) | | B (4|- 8) | | C (12|0) | | D (1|-2,5) | | E (1|0) | | F (1|- 1) | |
| ja | nein | ja | nein | ja | nein | ja | nein | ja | nein | ja | nein |
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| f) f(x) = 2,5x - 5 | | | | | | | | | | | |
| A (1|1) | | B (4|- 8) | | C (12|0) | | D (1|-2,5) | | E (1|0) | | F (1|- 1) | |
| ja | nein | ja | nein | ja | nein | ja | nein | ja | nein | ja | nein |
|  |  |  |  |  |  |  |  |  |  |  |  |