



## Gr 8 Wiskunde / Mathematics

Funksies en Verwantskappe | Functions and Relationships

• Uitvoerwaardes / Output Values (y)

4 Afhanklike
4 Dependent
4 y = 2x + 4
4 y = 2x + 4
4 In getalpatrone (Tn)
4 In humber patterns (Tn)

Tn = 5n - 2

Tn = 5n - 2

1. Vloeidiagramme | Flow diagrams
Invoer | Input | uitvoer | Output

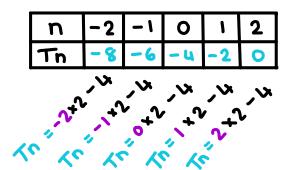
-2

O Invoer | X 2 - 4

2

2. Tabelle / Tables

Tn = nx2-4



8.2.7

2

3. Formule | Formula

$$y = 2x - 4$$
Tndien  $x \in \{-2; -1; 0; 1; 2\}$ 

$$x = -2$$

$$x = -1$$

$$y = 2(-2) - 4$$

$$y = -8$$

$$y = 2(-1) - 4$$

$$y = -6$$

$$x = 0$$

$$y = 2(0) - 4$$

$$y = -4$$

$$y = 2(1) - 4$$

$$y = -2$$

$$y = 2(2) - 4$$

- · Jy moet die invoerwaardes ook kan bepaal indien die uitvoerwaardes gegee word.
- · You should be able to provide the input values if the output values are given.

b) 
$$y = -2x + 3$$
  
 $y = -2x + 3$ 

$$y \in \{-3; -1; \overline{3}; \overline{4}\}$$
vervang  $y \mid \text{substitute } y$ 

$$\frac{1}{2} = -2x + 3 \qquad \boxed{2} - 1 = -2x + 3$$

8.2.7

3

$$2x = +3 + 3$$

$$\frac{2x}{2} = \frac{6}{2}$$

$$x = 3$$

$$3 \quad 7 = -2x + 3$$

$$2x = 3 - 7$$

$$2x = -4$$

$$2 = -2$$

$$2x = 3 + 1$$

$$2x = 4$$

$$x = 2$$

4. Bepaal die Reël / Determine the Rule

Uitset = (inset xd)+C

d = Konstante verskil

C = getal wat moet

+ of - om waar

te maak

Output = (Input xd)+c
d = constant difference
C = number you must
+ or - to make
it true

Output = (input x2)\_\_\_

$$-1 = (-2 \times 2) + C$$
 $-1 = -4 + C$ 
 $-1 + 4 = C$ 
 $C = 3$