

Antw. 1.

a. $a = \frac{45-5}{7-3} = \frac{40}{4} = 10$ dus $y = 10x + b$

(3,5) invullen: $5 = 10 \cdot 3 + b \rightarrow b = 5 - 30 = -25$

dus $y = 10x - 25$. Controle (7,45): $45 = 10 \cdot 7 - 25$ klopt.

b. $a = \frac{-45-5}{7-3} = \frac{-50}{4} = -12\frac{1}{2}$ dus $y = -12\frac{1}{2}x + b$

(3,5) invullen: $5 = -12\frac{1}{2} \cdot 3 + b \rightarrow b = 5 + 37\frac{1}{2} = 42\frac{1}{2}$

dus $y = -12\frac{1}{2}x + 42\frac{1}{2}$. Controle (7,-45): $-45 = -12\frac{1}{2} \cdot 7 + 42\frac{1}{2}$ klopt.

Antw. 2.

a. $a = \frac{25-(-5)}{7-(-3)} = \frac{30}{10} = 3$ dus $y = 3x + b$

(-3,-5) invullen: $-5 = 3 \cdot (-3) + b \rightarrow b = -5 + 9 = 4$

dus $y = 3x + 4$. Controle (7,25): $25 = 3 \cdot 7 + 4$ klopt.

b. $a = \frac{-2-4}{-8-12} = \frac{-6}{-20} = 0,3$ dus $y = 0,3x + b$

(12,4) invullen: $4 = 0,3 \cdot 12 + b \rightarrow b = 4 - 3,6 = 0,4$

dus $y = 0,3x + 0,4$. Controle (-8,-2): $-2 = 0,3 \cdot (-8) + 0,4$ klopt.

Antw. 3

a. $a = \frac{-5-(-5)}{7-(-3)} = \frac{0}{10} = 0$ dus $y = 0x + b$, dus $y = b$

(-3,-5) invullen: $-5 = b \rightarrow b = -5$

dus $y = -5$. Controle (7,-5): klopt.

b. $a = \frac{-2-4}{12-12} = \frac{-6}{0}$ kan niet, dus een verticale lijn: $x = 12$