

Antwoorden

Opdracht 20.1

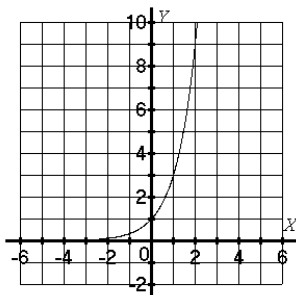
- a. 9
- b. 1
- c. $\frac{1}{3}$
- d. $\frac{1}{9}$

Opdracht 20.2

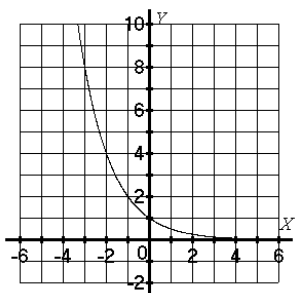
- a. $\frac{1}{4}$
- b. 1
- c. 2
- d. 4

Opdracht 20.3

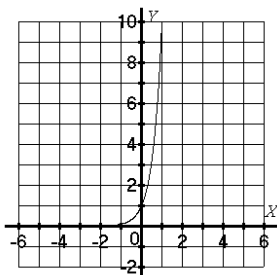
a.



b.



c.

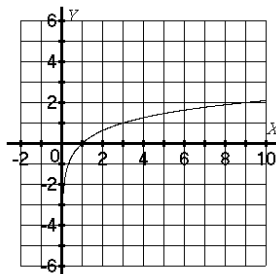


Opdracht 20.4

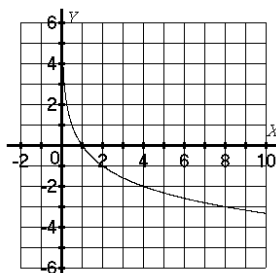
- a. $x = 5^y$
- b. $x = (\frac{1}{3})^y = 3^{-y}$
- c. $x = 7^y$
- $x = (\frac{1}{5})^y = 5^{-y}$

Opdracht 20.5

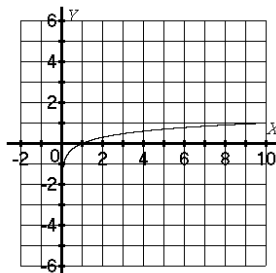
a.



b.



c.



Opdracht 20.6

- a. $x = 3$

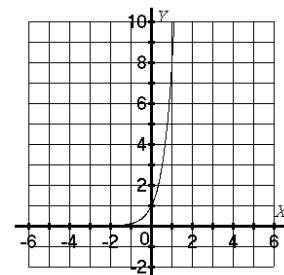
- b. $x = 2$

- c. $\emptyset$

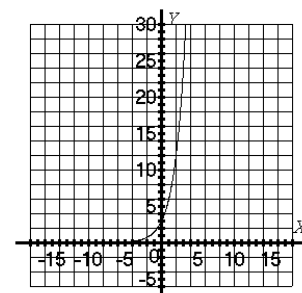
- d. $x = 2$

Opdracht 20.7

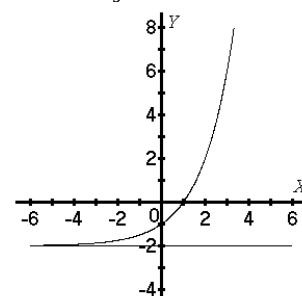
- a. X-as: $\emptyset$, Y-as: (0, 1)

H.A. $y = 0$ 

- b. X-as: $\emptyset$, Y-as: (0, 3)

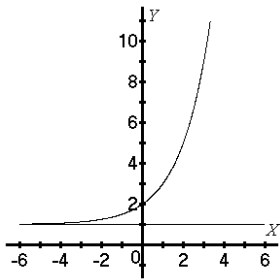
H.A. $y = 0$ 

- c. X-as: (1, 0), Y-as: (0, -1)

H.A. $y = -2$ 

- d. X-as: $\emptyset$, Y-as: (0, 2)

H.A. $y = 1$



Opdracht 20.8

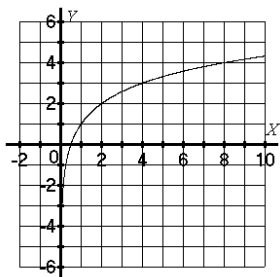
- $x = \frac{3^y}{2}$
- $x = 2^y + 4$
- $x = 2^y - 2$
- $x = 2^{\frac{y}{4}}$

Opdracht 20.9

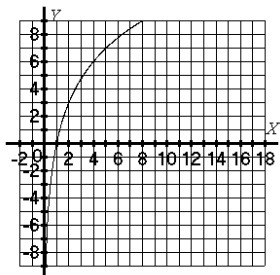
- $x = \frac{1}{2}$
- $x = 3$
- $x = 0$
- $x = 3$

Opdracht 20.10

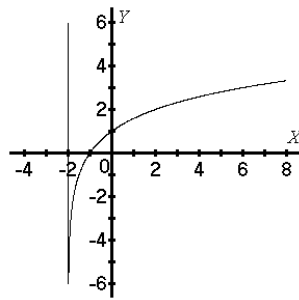
- X-as: $(\frac{1}{2}, 0)$, Y-as: $\emptyset$
V.A. $x = 0$



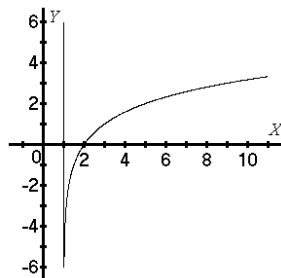
- X-as: $(1, 0)$, Y-as: $\emptyset$
V.A. $x = 0$



- X-as: $(-1, 0)$, Y-as: $(0, 1)$
V.A. $x = -2$

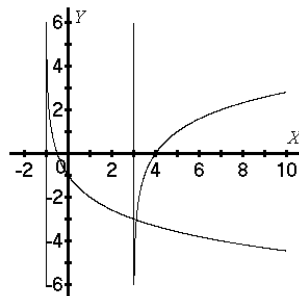


- X-as: $(2, 0)$, Y-as: $\emptyset$
V.A. $x = 1$



Opdracht 20.11

- $f: (-\frac{1}{2}, 0)$ $(0, -1)$
 $g: (2, 0)$ $\emptyset$
- $f: x = -1$, $g: x = 3$
-



Opdracht 20.12

- 2^4
- 3^{-3}
- $2^{\frac{3}{5}}$
- $5^{-\frac{1}{3}}$

Opdracht 20.13

- 3
- 81
- $-2\frac{1}{3}$

Opdracht 20.14

- $x \leq 5$
- $x \geq 2$

- $x > 3$
- $x < 2$

Opdracht 20.15

- $x < 2$
- $x \geq 4$
- $x \leq 3$
- $x > 2$

Opdracht 20.16

- $x \geq 8$
- $x > \frac{1}{9}$
- $0 < x \leq 25$
- $0 < x < \frac{1}{7}$

Opdracht 20.17

- $x \geq \frac{1}{16}$
- $x > 9$
- $0 < x \leq \frac{1}{5}$
- $0 < x < 7$

Opdracht 20.18

- $x \leq 6$
- $x < 3$
- $x \geq 16$
- $0 < x < \sqrt{2}$
- $x > \frac{1}{9}$
- $0 < x \leq \frac{1}{8}$

Opdracht 20.19

- $(-1\frac{1}{2}, 0)$ $(0, 2)$
- $\{x \mid x > -2\}$
- $x = -2$
- $x \geq 2$
- $-2 < x \leq 0$

Opdracht 20.20

- 800, 1600, 3200, 6400
- $N(t) = 200 \times 2^t$

Opdracht 20.21

- $t = 5,55$
- $t = 5,78$
- $t = 94,05$
- $t = 0,84$

Opdracht 20.22

- a. $t = 4,70$
- b. $t = 2,46$
- c. $t = 3,15$
- d. $t = 71,71$

Opdracht 20.23

- a. $t = 3,54$
- b. $t = 1,41$
- c. $t = 2,20$
- d. $t = 16,89$

Opdracht 20.24

- a. 295.245 m^2
- b. 11,7 perioden

Opdracht 20.25

- a. $A(t) = 5 \times 3^{\frac{1}{15}t} = 5 \times 3^{\frac{t}{15}}$
- b. $280,8 \text{ m}^2$
- c. 55,9 min

Opdracht 20.26

- a. $f \ 3934,30 \ f \ 7739,37$
 $f \ 15224,51$
- b. 47,6 jaar

Opdracht 20.27

≈ 10 perioden van 8
dagen, dus na 80 dagen.