

17 De waterhoogte in een reservoir dat wordt gevuld met water

kan je beschrijven met de formule $H = \sqrt{0,25t^2 + 100}$.

Hierin is H de waterhoogte in cm en t de tijd in minuten.

a. Hoe hoog staat het water op $t = 0$?

b. Na hoeveel minuten is de waterhoogte 40 cm?

c. Laat zien dat je de formule $H = \sqrt{0,25t^2 + 100}$ kunt

herleiden tot $H = 0,5 \cdot \sqrt{t^2 + 400}$.

d. Geef een formule waarbij je t uitdrukt in H .

e. Het reservoir heeft een hoogte van 1,5 meter.

Hoe lang duurt het vullen van het reservoir?

f. Hoe lang duurt het voordat de waterhoogte van 50 cm naar 60 cm is gestegen? Rond af op hele minuten.

Vergelijkingen kun je ook oplossen met je grafische rekenmachine.

a) $H(0) = \sqrt{100} = 10 \text{ cm}$

b) $\sqrt{0,25t^2 + 100} = 40$

$0,25t^2 + 100 = 1600$

$0,25t^2 = 1500$

$t^2 = 6000$

$t = \sqrt{6000}$

$= 77,46 \text{ min}$

minuut afgerond

c) $\sqrt{0,25t^2 + 100} = \sqrt{0,25(t^2 + 400)} = \sqrt{0,25} \cdot \sqrt{t^2 + 400} = 0,5 \cdot \sqrt{t^2 + 400}$

d) $H = 0,5 \cdot \sqrt{t^2 + 400}$

$2H = \sqrt{t^2 + 400}$

$4H^2 = t^2 + 400$

$4H^2 - 400 = t^2$

dan $t = \sqrt{4H^2 - 400}$

e) $t = \sqrt{4 \cdot 150^2 - 400} = \sqrt{89600} \approx 299 \text{ min}$

f) $\begin{matrix} H = 50 \rightarrow \sqrt{4 \cdot 50^2 - 400} = 97,98 \\ H = 60 \rightarrow \sqrt{4 \cdot 60^2 - 400} = 118,32 \end{matrix} \Rightarrow 20 \text{ min}$



Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen

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Table of Contents Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen

1. Understanding the eBook Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - The Rise of Digital Reading Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - Advantages of eBooks Over Traditional Books
2. Identifying Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen

- Personalized Recommendations
 - Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen User Reviews and Ratings
 - Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen and Bestseller Lists
5. Accessing Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen Free and Paid eBooks
- Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen Public Domain eBooks
 - Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen eBook Subscription Services
 - Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen Budget-Friendly Options
6. Navigating Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen eBook Formats
- ePub, PDF, MOBI, and More
 - Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen Compatibility with Devices
 - Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - Highlighting and Note-Taking Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - Interactive Elements Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
8. Staying Engaged with Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
9. Balancing eBooks and Physical Books Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
- Setting Reading Goals Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen

- Fact-Checking eBook Content of Wiskunde 1 Vwo 1979 Tm 1982 Uitwerkingen
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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