



WISKUNDEPLAN

REKENVAARDIGHEDEN:
AFGELEIDEN

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1.0.A Oefeningen niveau 1**1.0.A Oefeningen niveau 1****Oefening 1.0.1.** Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx}(1) = \dots\dots$

4. $\frac{d}{dx}(x^3) = \dots\dots$

2. $\frac{d}{dx}(x) = \dots\dots$

5. $\frac{d}{dx}(x^4) = \dots\dots$

3. $\frac{d}{dx}(x^2) = \dots\dots$

6. $\frac{d}{dx}(x^5) = \dots\dots$

Oefening 1.0.2. Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx}(x + 1) = \dots\dots$

5. $\frac{d}{dx}(2x + 2) = \dots\dots$

2. $\frac{d}{dx}(x + 2) = \dots\dots$

6. $\frac{d}{dx}(2x + 3) = \dots\dots$

3. $\frac{d}{dx}(x + 3) = \dots\dots$

4. $\frac{d}{dx}(2x + 1) = \dots\dots$

7. $\frac{d}{dx}(3x + 1) = \dots\dots$

Oefening 1.0.3. Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx}(x^2 + 1) = \dots\dots$

4. $\frac{d}{dx}(x^2 + 2x) = \dots\dots$

2. $\frac{d}{dx}(x^2 + 2) = \dots\dots$

5. $\frac{d}{dx}(x^2 + x + 1) = \dots\dots$

3. $\frac{d}{dx}(x^2 + x) = \dots\dots$

6. $\frac{d}{dx}(x^2 + x + 2) = \dots\dots$

Oefening 1.0.4. Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx}(2x^2) = \dots\dots$

4. $\frac{d}{dx}(2x^2 + x + 1) = \dots\dots$

2. $\frac{d}{dx}(2x^2 + 1) = \dots\dots$

5. $\frac{d}{dx}(2x^2 + 2x + 1) = \dots\dots$

3. $\frac{d}{dx}(2x^2 + x) = \dots\dots$

6. $\frac{d}{dx}(2x^2 + \pi x + 1) = \dots\dots$

1.0.B Oefeningen niveau 2

1.0.B Oefeningen niveau 2

Oefening 1.0.5. Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx} (4x^3 + 2x^2 + 7x + 5) = \dots\dots$
2. $\frac{d}{dx} (-3x^3 + 5x^2 - 2x + 8) = \dots\dots$
3. $\frac{d}{dx} (7x^3 - 4x^2 + x - 6) = \dots\dots$
4. $\frac{d}{dx} (x^3 + 3x^2 + 5x + 7) = \dots\dots$
5. $\frac{d}{dx} (-2x^3 + 6x^2 - 4x + 10) = \dots\dots$
6. $\frac{d}{dx} (5x^3 - x^2 + 2x + 9) = \dots\dots$
7. $\frac{d}{dx} (-x^3 + 4x^2 - 7x + 3) = \dots\dots$
8. $\frac{d}{dx} (2x^3 + x^2 - 5x + 4) = \dots\dots$
9. $\frac{d}{dx} (-4x^3 + 3x^2 - x + 6) = \dots\dots$
10. $\frac{d}{dx} (3x^3 - 2x^2 + 8x - 5) = \dots\dots$

Oefening 1.0.6. Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx} (4x^4 + 3x^3 + 2x^2 + x + 5) = \dots\dots$
2. $\frac{d}{dx} (-2x^4 + 5x^3 - 7x^2 + 4x - 6) = \dots\dots$
3. $\frac{d}{dx} (x^4 - 2x^3 + 3x^2 - 4x + 5) = \dots\dots$
4. $\frac{d}{dx} (6x^4 - 3x^3 + x^2 - 2x + 7) = \dots\dots$
5. $\frac{d}{dx} (-x^4 + 4x^3 - 5x^2 + 2x - 8) = \dots\dots$
6. $\frac{d}{dx} (3x^4 - x^3 + 6x^2 - 2x + 9) = \dots\dots$
7. $\frac{d}{dx} (-5x^4 + 2x^3 - x^2 + 3x - 4) = \dots\dots$
8. $\frac{d}{dx} (2x^4 - 3x^3 + 5x^2 - x + 6) = \dots\dots$
9. $\frac{d}{dx} (-4x^4 + x^3 - 2x^2 + 7x - 3) = \dots\dots$
10. $\frac{d}{dx} (x^4 + 2x^3 - 4x^2 + 6x - 5) = \dots\dots$

1.0.B Oefeningen niveau 2**Oefening 1.0.7.** Bereken de afgeleide van volgende veeltermen

1. $\frac{d}{dx} (4x^5 + 3x^4 + 2x^3 + x^2 + 5x + 7) = \dots\dots$

2. $\frac{d}{dx} (-2x^5 + 5x^4 - 7x^3 + 4x^2 - 6x + 3) = \dots\dots$

3. $\frac{d}{dx} (x^5 - 2x^4 + 3x^3 - 4x^2 + 5x - 6) = \dots\dots$

4. $\frac{d}{dx} (6x^5 - 3x^4 + x^3 - 2x^2 + 7x - 8) = \dots\dots$

5. $\frac{d}{dx} (-x^5 + 4x^4 - 5x^3 + 2x^2 - 8x + 9) = \dots\dots$

6. $\frac{d}{dx} (3x^5 - x^4 + 6x^3 - 2x^2 + 9x - 4) = \dots\dots$

7. $\frac{d}{dx} (-5x^5 + 2x^4 - x^3 + 3x^2 - 4x + 6) = \dots\dots$

8. $\frac{d}{dx} (2x^5 - 3x^4 + 5x^3 - x^2 + 6x - 7) = \dots\dots$

9. $\frac{d}{dx} (-4x^5 + x^4 - 2x^3 + 7x^2 - 3x + 8) = \dots\dots$

10. $\frac{d}{dx} (x^5 + 2x^4 - 4x^3 + 6x^2 - 5x + 9) = \dots\dots$

1.0.C Oefeningen niveau 3

1.0.C Oefeningen niveau 3

Oefening 1.0.8.

1. $\frac{d}{dx} (4x^2 + 6) = \dots\dots$
2. $\frac{d}{dx} (5x^3 + 7x - 6) = \dots\dots$
3. $\frac{d}{dx} (5x^4 - 7x) = \dots\dots$
4. $\frac{d}{dx} (-2x^3 + x^2 + 4) = \dots\dots$
5. $\frac{d}{dx} (5x^4 - x + 8) = \dots\dots$
6. $\frac{d}{dx} (-x^5 + 3x^4 + 2x^2 - 6x + 9) = \dots\dots$
7. $\frac{d}{dx} (6x^3 + 5x - 7) = \dots\dots$
8. $\frac{d}{dx} (x^4 + 2x^3 - 5) = \dots\dots$
9. $\frac{d}{dx} (7x^2 - 3x + 2) = \dots\dots$
10. $\frac{d}{dx} (-4x^5 + x^4 - 2x^3 + 6x^2 - x + 8) = \dots\dots$

Oefening 1.0.9.

1. $\frac{d}{dx} (3x^3 + 5x - 7) = \dots\dots$
2. $\frac{d}{dx} (-4x^4 + x^3 + 2x - 6) = \dots\dots$
3. $\frac{d}{dx} (5x^5 - 7x^2 + x - 8) = \dots\dots$
4. $\frac{d}{dx} (x^6 - 2x^5 + 3x^4 - 4x^3 + 7) = \dots\dots$
5. $\frac{d}{dx} (-2x^3 + 4x^2 - x + 9) = \dots\dots$
6. $\frac{d}{dx} (6x^4 + 5x^2 - 2x + 8) = \dots\dots$
7. $\frac{d}{dx} (-3x^5 - 7x^3 + x^2 + 6) = \dots\dots$
8. $\frac{d}{dx} (4x^6 - x^5 + 2x^4 - 3x^3 + 7x^2 - x + 9) = \dots\dots$
9. $\frac{d}{dx} (-x^4 + 2x - 4) = \dots\dots$
10. $\frac{d}{dx} (2x^6 + x^4 - 7x^3 + 5x^2 - x + 4) = \dots\dots$

1.0.C Oefeningen niveau 3**Oefening 1.0.10.**

1. $\frac{d}{dx} (5x^3 - 2x^2 + 4x - 7) = \dots\dots$
2. $\frac{d}{dx} (-3x^4 + 2x - 6) = \dots\dots$
3. $\frac{d}{dx} (7x^5 + 2x^3 - 8x^2 + x - 9) = \dots\dots$
4. $\frac{d}{dx} (x^6 + 2x^2 - x + 8) = \dots\dots$
5. $\frac{d}{dx} (-2x^3 + 6x^2 - x + 5) = \dots\dots$
6. $\frac{d}{dx} (4x^4 - x^3 + 3x^2 - 2x + 7) = \dots\dots$
7. $\frac{d}{dx} (-5x^5 - 8x^3 - 6x + 4) = \dots\dots$
8. $\frac{d}{dx} (3x^6 - 4x^5 + 2x^2 - x + 9) = \dots\dots$
9. $\frac{d}{dx} (x^3 + 2x^2 - 4x + 6) = \dots\dots$
10. $\frac{d}{dx} (-2x^4 + 3x^3 - 5x^2 + 7x - 8) = \dots\dots$

Oefening 1.0.11.

1. $\frac{d}{dx} (6x^5 + 8x - 7) = \dots\dots$
2. $\frac{d}{dx} (-x^6 + 7x^3 - 4x^2 + x - 9) = \dots\dots$
3. $\frac{d}{dx} (5x^3 - x^2 + 7x) = \dots\dots$
4. $\frac{d}{dx} (-4x^4 + 2x^3 - 3x^2 + 6x) = \dots\dots$
5. $\frac{d}{dx} (7x^5 - 3x^4 - 8x^2 + 2x) = \dots\dots$
6. $\frac{d}{dx} (x^6 - 4x^5 + 2x^4 - 6x^3 + 5x^2 - x) = \dots\dots$
7. $\frac{d}{dx} (-3x^3 - 2x) = \dots\dots$
8. $\frac{d}{dx} (4x^4 - x^3 + 2x^2 - 5x) = \dots\dots$
9. $\frac{d}{dx} (-2x^5 - 6x) = \dots\dots$
10. $\frac{d}{dx} (3x^6 + 4x^4 - 7x^3 + 2x^2 - x) = \dots\dots$

2.0.D Oefeningen niveau 1

2.0.D Oefeningen niveau 1

Oefening 2.0.12. Bereken de afgeleide

1. $\frac{d}{dx}(\sin x) = \dots\dots$

5. $\frac{d}{dx}(2 \sin x) = \dots\dots$

2. $\frac{d}{dx}(\cos x) = \dots\dots$

6. $\frac{d}{dx}(6 \cos x) = \dots\dots$

3. $\frac{d}{dx}(-\sin x) = \dots\dots$

7. $\frac{d}{dx}(-\pi \sin x) = \dots\dots$

4. $\frac{d}{dx}(-\cos x) = \dots\dots$

8. $\frac{d}{dx}(-4 \cos x) = \dots\dots$

Oefening 2.0.13. Bereken de afgeleide

1. $\frac{d}{dx}(\sin x + \cos x) = \dots\dots$

5. $\frac{d}{dx}(\sin^2(x)) = \dots\dots$

2. $\frac{d}{dx}(\sin x \cdot \cos x) = \dots\dots$

6. $\frac{d}{dx}(\sin(2x)) = \dots\dots$

3. $\frac{d}{dx}\left(\frac{\sin x}{\cos x}\right) = \dots\dots$

7. $\frac{d}{dx}\left(\frac{1}{\sin x}\right) = \dots\dots$

4. $\frac{d}{dx}\left(\frac{\cos x}{\sin x}\right) = \dots\dots$

8. $\frac{d}{dx}\left(\frac{1}{\cos x}\right) = \dots\dots$

Oefening 2.0.14. Bereken de afgeleide

1. $\frac{d}{dx}(3 \sin^2 x) = \dots\dots$

5. $\frac{d}{dx}(\cos(\cos x)) = \dots\dots$

2. $\frac{d}{dx}(3 \cos^2 x) = \dots\dots$

6. $\frac{d}{dx}(\tan(3x + 1)) = \dots\dots$

3. $\frac{d}{dx}(\cos(\sin x)) = \dots\dots$

7. $\frac{d}{dx}(\sin(2x) \cdot \sin x) = \dots\dots$

4. $\frac{d}{dx}(\sin(\cos x)) = \dots\dots$

8. $\frac{d}{dx}(\cos(x^2) \cdot \tan(x^2)) = \dots\dots$

2.0.E Oefeningen niveau 2

2.0.E Oefeningen niveau 2

Oefening 2.0.15. Bereken de afgeleide

1. $\frac{d}{dx} (\tan^2 x) = \dots\dots$

2. $\frac{d}{dx} (\sin^3 x) = \dots\dots$

3. $\frac{d}{dx} (\cos^3 x) = \dots\dots$

4. $\frac{d}{dx} \left(\frac{1}{\tan x} \right) = \dots\dots$

5. $\frac{d}{dx} \left(\frac{1}{\sin^2 x} \right) = \dots\dots$

6. $\frac{d}{dx} \left(\frac{1}{\cos^2 x} \right) = \dots\dots$

7. $\frac{d}{dx} (\tan(2x)) = \dots\dots$

8. $\frac{d}{dx} (\tan(x^2)) = \dots\dots$

9. $\frac{d}{dx} (\sin(3x) \cdot \cos(3x)) = \dots\dots$

10. $\frac{d}{dx} (\cos(2x) \cdot \tan(2x)) = \dots\dots$

Oefening 2.0.16. Bereken de afgeleide

1. $\frac{d}{dx} (\sin(x^2) \cdot \cos(x)) = \dots\dots$

2. $\frac{d}{dx} (\sin(x^4 + 2)) = \dots\dots$

3. $\frac{d}{dx} (\pi + \cos x) = \dots\dots$

4. $\frac{d}{dx} (\cos x + \pi - \sin x) = \dots\dots$

5. $\frac{d}{dx} \left(\frac{\tan(3x^2)}{\sin(3x^2)} \right) = \dots\dots$

6. $\frac{d}{dx} (\cos^3(2x)) = \dots\dots$

7. $\frac{d}{dx} ((\sin x + \cos x)^3) = \dots\dots$

8. $\frac{d}{dx} (\sin \pi) = \dots\dots$

Oefening 2.0.17. Bereken de afgeleide

2.0.E Oefeningen niveau 2

1. $\frac{d}{dx} (\sin(4x + 1)) = \dots\dots$
2. $\frac{d}{dx} (\cos(5x - 3)) = \dots\dots$
3. $\frac{d}{dx} (\sin(\cos x)) = \dots\dots$
4. $\frac{d}{dx} (\cos(\sin x)) = \dots\dots$
5. $\frac{d}{dx} (\tan(\tan x)) = \dots\dots$
6. $\frac{d}{dx} (\sin^2(\cos x)) = \dots\dots$
7. $\frac{d}{dx} (\cos^2(\sin x)) = \dots\dots$
8. $\frac{d}{dx} (x \sin x) = \dots\dots$
9. $\frac{d}{dx} (x \cos x) = \dots\dots$
10. $\frac{d}{dx} (x \tan x) = \dots\dots$

Oefening 2.0.18. Bereken de afgeleide

1. $\frac{d}{dx} (\sin x + x^2) = \dots\dots$
2. $\frac{d}{dx} (\cos x + x^3) = \dots\dots$
3. $\frac{d}{dx} (\sin^2 x + x^4) = \dots\dots$
4. $\frac{d}{dx} (\cos^2 x + x^5) = \dots\dots$
5. $\frac{d}{dx} (x \sin^2 x) = \dots\dots$
6. $\frac{d}{dx} (x \cos^2 x) = \dots\dots$
7. $\frac{d}{dx} (\sin(2x) + x^2) = \dots\dots$
8. $\frac{d}{dx} (\cos(3x) + x^3) = \dots\dots$
9. $\frac{d}{dx} (\tan(x^2 + 1)) = \dots\dots$
10. $\frac{d}{dx} (\sin^2(3x)) = \dots\dots$

2.0.E Oefeningen niveau 2**Oefening 2.0.19.** Bereken de afgeleide

1. $\frac{d}{dx} (\cos^2(4x)) = \dots\dots$

2. $\frac{d}{dx} (\sin(x) \cdot \cos(x^2)) = \dots\dots$

3. $\frac{d}{dx} (\sin(x^2) \cdot \cos x) = \dots\dots$

4. $\frac{d}{dx} (\sin(\cos(x^2))) = \dots\dots$

5. $\frac{d}{dx} (\cos(\sin(x^3))) = \dots\dots$

6. $\frac{d}{dx} (x^2 \sin x) = \dots\dots$

7. $\frac{d}{dx} (x^3 \cos x) = \dots\dots$

8. $\frac{d}{dx} (x^4 \sin(2x)) = \dots\dots$

9. $\frac{d}{dx} (x^5 \cos(3x)) = \dots\dots$

10. $\frac{d}{dx} \left(\frac{x^2}{\sin x} \right) = \dots\dots$

Oefening 2.0.20. Bereken de afgeleide

1. $\frac{d}{dx} \left(\frac{\tan x}{x} \right) = \dots\dots$

2. $\frac{d}{dx} \left(\frac{x^3}{\cos x} \right) = \dots\dots$

3. $\frac{d}{dx} \left(\frac{x}{\sin x} \right) = \dots\dots$

4. $\frac{d}{dx} \left(\frac{x^2}{\cos x} \right) = \dots\dots$

5. $\frac{d}{dx} \left(\frac{x^3}{\sin x} \right) = \dots\dots$

6. $\frac{d}{dx} \left(\frac{x}{\cos x} \right) = \dots\dots$

7. $\frac{d}{dx} \left(\frac{x^4}{\sin(2x)} \right) = \dots\dots$

8. $\frac{d}{dx} \left(\frac{x^5}{\cos(2x)} \right) = \dots\dots$

9. $\frac{d}{dx} (\tan(x^3 + x)) = \dots\dots$

10. $\frac{d}{dx} (x^2 \sin(x^2 + 1)) = \dots\dots$

2.0.F Oefeningen niveau 3

2.0.F Oefeningen niveau 3

Oefening 2.0.21. Bereken de afgeleide

1. $\frac{d}{dx} \left(\frac{x^6}{\sin(3x)} \right) = \dots\dots$

2. $\frac{d}{dx} (x^3 \cos(x^4 + x)) = \dots\dots$

3. $\frac{d}{dx} (\tan(x^5 + x^3)) = \dots\dots$

4. $\frac{d}{dx} \left(\frac{x^4}{\cos(x^3 + x)} \right) = \dots\dots$

5. $\frac{d}{dx} (x^2 \sin(x^4 + x^2)) = \dots\dots$

6. $\frac{d}{dx} (\cos(x^2 + \sin x)) = \dots\dots$

7. $\frac{d}{dx} (\sin^3(x^2 + 2x)) = \dots\dots$

8. $\frac{d}{dx} (x^3 \cos^2(x^2)) = \dots\dots$

9. $\frac{d}{dx} \left(\frac{x^5}{\sin^2(2x)} \right) = \dots\dots$

10. $\frac{d}{dx} (\tan^2(x^3 + x)) = \dots\dots$

3.0.G Oefeningen niveau 1

3.0.G Oefeningen niveau 1

Oefening 3.0.22. Bereken de afgeleide

1. $\frac{d}{dx}(e^x) = \dots\dots$

2. $\frac{d}{dx}(2e^x) = \dots\dots$

3. $\frac{d}{dx}(3e^x) = \dots\dots$

4. $\frac{d}{dx}(e^x + 1) = \dots\dots$

5. $\frac{d}{dx}(e^x + 2) = \dots\dots$

6. $\frac{d}{dx}(e^x + e^x) = \dots\dots$

7. $\frac{d}{dx}(3e^x - 10e^x) = \dots\dots$

8. $\frac{d}{dx}(e^\pi) = \dots\dots$

9. $\frac{d}{dx}(\pi e^x) = \dots\dots$

Oefening 3.0.23. Bereken de afgeleide

1. $\frac{d}{dx}(e^{2x}) = \dots\dots$

2. $\frac{d}{dx}(e^{-x}) = \dots\dots$

3. $\frac{d}{dx}(e^{x^2}) = \dots\dots$

4. $\frac{d}{dx}(xe^x) = \dots\dots$

5. $\frac{d}{dx}(x^2e^x) = \dots\dots$

6. $\frac{d}{dx}(e^{2x+1}) = \dots\dots$

7. $\frac{d}{dx}(e^\pi e^x) = \dots\dots$

8. $\frac{d}{dx}(e^{\sin x}) = \dots\dots$

9. $\frac{d}{dx}(e^{\cos x}) = \dots\dots$

Oefening 3.0.24.

1. $\frac{d}{dx}(\ln x) = \dots\dots$

2. $\frac{d}{dx}(\ln(2x)) = \dots\dots$

3. $\frac{d}{dx}(\ln(x^2)) = \dots\dots$

4. $\frac{d}{dx}(\ln(3x + 1)) = \dots\dots$

5. $\frac{d}{dx}(\ln(x^3 + 4)) = \dots\dots$

6. $\frac{d}{dx}(x \ln x) = \dots\dots$

7. $\frac{d}{dx}(x^2 \ln x) = \dots\dots$

8. $\frac{d}{dx}(\ln(\sin x)) = \dots\dots$

9. $\frac{d}{dx}(\ln(x^2 + 1)) = \dots\dots$

10. $\frac{d}{dx}(\ln(e^x)) = \dots\dots$

3.0.H Oefeningen niveau 2

3.0.H Oefeningen niveau 2

Oefening 3.0.25. Bereken de afgeleide

1. $\frac{d}{dx}(e^{3x}) = \dots\dots$

2. $\frac{d}{dx}(e^{-2x}) = \dots\dots$

3. $\frac{d}{dx}(e^{x^3}) = \dots\dots$

4. $\frac{d}{dx}(xe^{x^2}) = \dots\dots$

5. $\frac{d}{dx}(x^3e^x) = \dots\dots$

6. $\frac{d}{dx}(e^{3x+5}) = \dots\dots$

7. $\frac{d}{dx}(e^x + e^{-x}) = \dots\dots$

8. $\frac{d}{dx}(e^{\sin(2x)}) = \dots\dots$

9. $\frac{d}{dx}(e^{\cos(3x)}) = \dots\dots$

10. $\frac{d}{dx}(e^{x^4+x}) = \dots\dots$

Oefening 3.0.26. Bereken de afgeleide

1. $\frac{d}{dx}(e^x \cdot e^x) = \dots\dots$

2. $\frac{d}{dx}(e^{x+e^x}) = \dots\dots$

3. $\frac{d}{dx}(xe^{x^3}) = \dots\dots$

4. $\frac{d}{dx}(e^{x^2+4x}) = \dots\dots$

5. $\frac{d}{dx}(xe^{2x}) = \dots\dots$

6. $\frac{d}{dx}(e^{\tan x}) = \dots\dots$

7. $\frac{d}{dx}(e^{\ln x}) = \dots\dots$

8. $\frac{d}{dx}(e^{x^3+x^2}) = \dots\dots$

9. $\frac{d}{dx}(x^2e^{x^2}) = \dots\dots$

10. $\frac{d}{dx}(xe^{x+1}) = \dots\dots$

Oefening 3.0.27. Bereken de afgeleide

1. $e^{\cos^2 x} = \dots\dots$

2. $e^{\sin^2 x} = \dots\dots$

3. $e^{x+e^x} = \dots\dots$

4. $x^3e^{x^2} = \dots\dots$

5. $e^{\tan^2 x} = \dots\dots$

6. $xe^{x^4} = \dots\dots$

7. $e^{\ln(x^2)} = \dots\dots$

8. $e^{\cos(x^2)} = \dots\dots$

9. $e^{x+e^{x^2}} = \dots\dots$

10. $e^{\sin(x^3)} = \dots\dots$