

Oefeningen niveau 2

Oefening 1. Bereken de afgeleide

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

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

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

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

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

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

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

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

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

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

Oefening 2. Bereken de afgeleide

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

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

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

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

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

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

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

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

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

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

Oefening 3. Bereken de afgeleide

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

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

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

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

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

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

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

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

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

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