

Functia

Derivata (raspuns)

1. $f(x) = e^{-2x}$

$$f'(x) = -2e^{-2x}$$

2. $g(x) = e - e^x$

$$g'(x) = -e^x$$

3. $y = e^2 - e^{-x}$

$$y' = e^{-x}$$

4. $f(x) = e^{\sqrt{x}+1}$

$$f'(x) = \frac{e^{\sqrt{x}+1}}{2\sqrt{x}}$$

5. $f(x) = xe^x$

$$f'(x) = e^x + xe^x$$

6. $y = e^{4\ln x}$

$$y' = 4x^3$$

7. $f(x) = e^{\lambda x}$

$$f'(x) = \lambda e^{\lambda x}$$

8. $g(x) = (e^x - e^{-x})^2$

$$g'(x) = 2(e^{2x} - e^{-2x})$$

9. $f(t) = e^{rt}$

$$f'(t) = re^{rt}$$

10. $y = e^{x^3+1000}$

$$y' = 3x^2 e^{x^3+1000}$$

11. $r(t) = ke^{\alpha t}$

$$r'(x) = k\alpha e^{\alpha t}$$

12. $y = \sqrt[3]{e^{2t}}$

$$y' = \frac{2}{3}e^{2/3t}$$