

Függvények – Differenciálszámítás – Derivált formálisan

I. rész

1. $f(x) = 5x^2 + \sqrt{x} - \frac{3}{x}$, 2. $f(x) = \frac{x}{2} + \sqrt[3]{x^2}$, 3. $f(x) = \frac{1-2x}{3}$,

4. $f(x) = x^2 \cos x$, 5. $f(x) = xe^x \arcsin x$, 6. $f(x) = \operatorname{tg} x$,

7. $f(x) = \frac{x^2}{x^2-4}$, 8. $f(x) = \frac{\sin x}{1-x}$, 9. $f(x) = \frac{x}{e^x(1-x)}$, 10. $f(x) = \frac{-8x}{(x^2-4)^2}$.

II. rész

1. $f(x) = \cos^2 x$, 2. $f(x) = \cos x^2$, 3. $f(x) = (3x^5 + 7)^{12}$,

4. $f(x) = \sqrt{2x - \sqrt{3x}}$, 5. $f(x) = \frac{1}{1-x^2}$, 6. $f(x) = \frac{1}{(1-x)^2}$,

7. $f(x) = \operatorname{arctg}(2x+1)$, 8. $f(x) = \ln(2-x)$, 9. $f(x) = x \ln x^2$,

10. $f(x) = x + e^{-x/2}$, 11. $f(x) = xe^{-1/x^2}$,

12. $f(x) = \log_2(x^3 - 1)$, 13. $f(x) = 3^{2-x}$.