- Deriválás:

1. $f(x,y) = x^2 \sin(x+y), \quad \partial_1 f(x,y) = ?$
2. $f(x,y) = x^2 \sin(x+y), \quad \partial_2 f(x,y) = ?$
3. $f(x,y,z) = x^z e^{xy}, \quad \partial_1 f(x,y) = ?$
4. $f(x,y,z) = x^z e^{xy}, \quad \partial_2 f(x,y) = ?$
5. $f(x,y,z) = x^z e^{xy}, \quad \partial_3 f(x,y) = ?$
6. $f(x,y) = \sqrt[3]{x^2y^4}, \quad \partial_1 f(x,y) = ?$
7. $f(x,y) = \sqrt[3]{x^2y^4}, \quad \partial_2 f(x,y) = ?$
8. $f(x,y) = \dfrac{x^2y^4}{\ln(x+y)}, \quad \partial_1 f(x,y) = ?$
9. $f(x,y) = \dfrac{x^2y^4}{\ln(x+y)}, \quad \partial_2 f(x,y) = ?$
10. $f(x,y) = \dfrac{1}{(x^2+y)^4}, \quad \partial_1 f(x,y) = ?$
11. $f(x,y) = \dfrac{1}{(x^2+y)^4}, \quad \partial_2 f(x,y) = ?$

- Integrálás:

1. $\displaystyle\int_D f = ?$ ahol $f(x,y) = \dfrac{1}{(3x-y+6)^4}, \quad D = [0,1] \times [1,2],$
2. $\displaystyle\int_D f = ?$ ahol $f(x,y) = (x-3y+1)^2, \quad D = [-1,1] \times [0,2],$
3. $\displaystyle\int_D f = ?$ ahol $f(x,y) = \dfrac{x^2}{y}, \quad D = [0,1] \times [1,e],$
4. $\displaystyle\int_D f = ?$ ahol $f(x,y) = \cos(2x)\sqrt{y^3}, \quad D = [0,\pi] \times [0,1],$
5. $\displaystyle\int_D f = ?$ ahol $f(x,y) = e^{y+2}\dfrac{1}{\sqrt[5]{x^2}}, \quad D = [1,2] \times [0,1],$