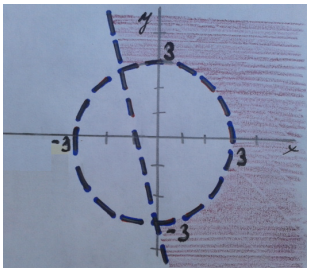
SOUHRN – DEFINIČNÍ OBORY DVOU PROMĚNNÝCH

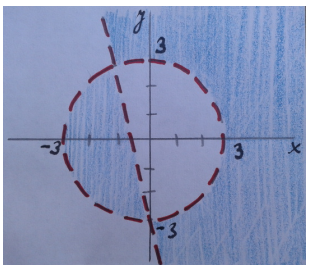
Níže uvedené příklady se objevily ve zkouškových testech v minulých letech.

Zadání **Výsledek**

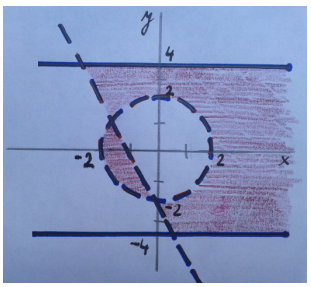
1) $f(x,y) = \ln\left(\dfrac{\sqrt{x^2+y^2-9}}{2x+y+3}\right)$



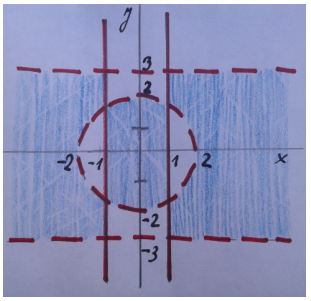
2) $f(x,y) = \ln\left(\dfrac{x^2+y^2-9}{3}\right)$



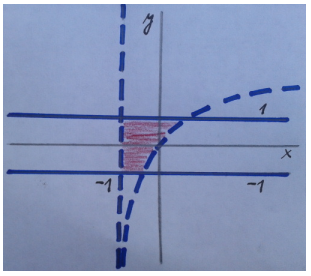
3) $f(x,y) = \sqrt{16-y^2} + \ln\left(\dfrac{x^2+y^2-4}{2x+y+2}\right)$



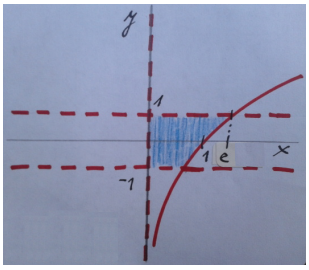
4) $f(x,y) = \sqrt{\dfrac{x^2-1}{x^2+y^2-4}} + \ln(9-y^2)$



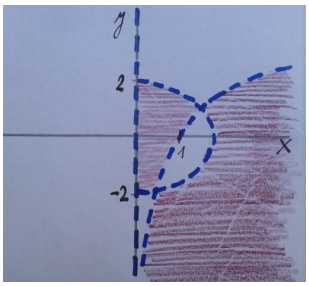
5) $f(x,y) = \dfrac{\arccos y}{\sqrt{y-\ln(x+1)}}$



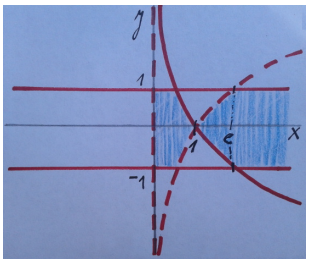
6) $f(x,y) = \sqrt{\dfrac{\ln x - y}{y^2 - 1}}$



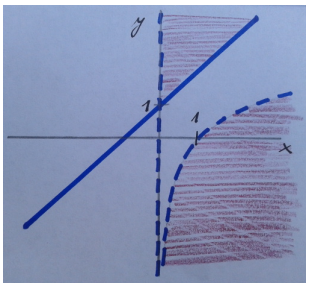
7) $f(x,y) = \ln\left(\dfrac{4x^2 + 9y^2 - 36}{\ln x - y}\right)$



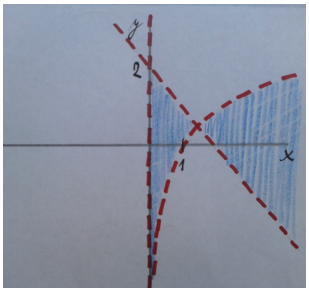
8) $f(x,y) = \sqrt{1 - y^2} + \sqrt{\dfrac{\ln x + y}{\ln x - y}}$



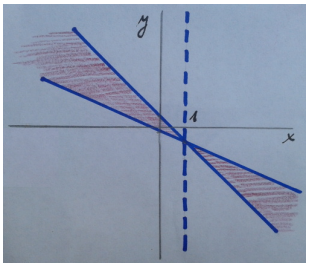
9) $f(x,y) = \sqrt{\dfrac{1 + x - y}{\ln x - y}}$



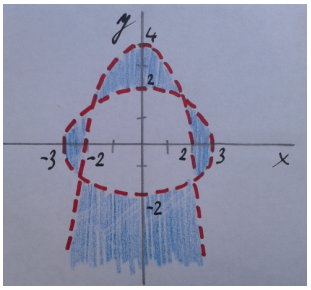
10) $f(x,y) = \ln\left(\dfrac{2 - x - y}{y - \log x}\right)$



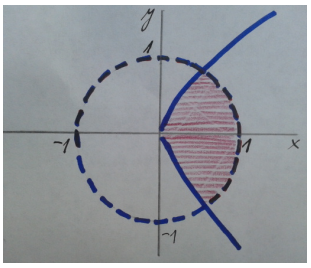
11) $f(x,y) = \arcsin\left(\dfrac{2x + 3y}{x - 1}\right)$



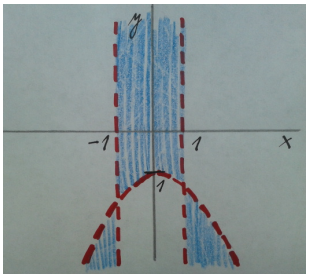
12) $f(x,y) = \log\left(\dfrac{36 - 4x^2 - 9y^2}{x^2 + y - 4}\right)$



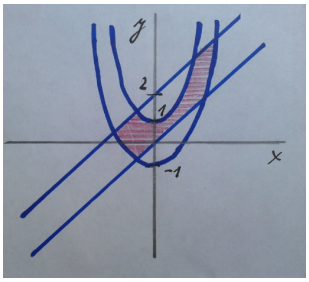
13) $f(x,y) = \dfrac{\sqrt{4x - y^2}}{\ln(1 - x^2 - y^2)}$



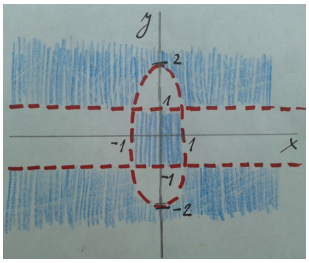
14) $f(x,y) = \ln\left(\dfrac{x^2 + y + 1}{1 - x^2}\right)$



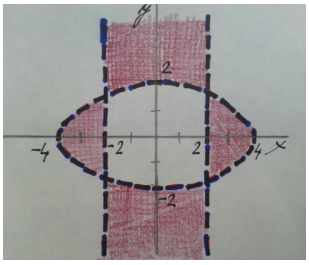
15) $f(x,y) = \arcsin(y - x^2) + \arcsin(y - x - 1)$



16) $f(x,y) = \log\left(\dfrac{4x^2 + y^2 - 4}{y^2 - 1}\right)$



17) $f(x,y) = \ln\left(\dfrac{4 - x^2}{x^2 + 4y^2 - 16}\right)$



18) $f(x,y) = \ln\left(\dfrac{4x^2+9y^2-24x-36y+36}{4x^2-y^2-24x+4y+28}\right)$