

Cvičení : Určete a graficky znázorněte definiční obor funkce:

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

$$2) z = \frac{\sqrt{4x - y^2}}{\ln(1 - x^2 - y^2)},$$

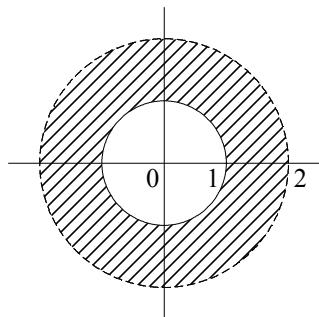
$$3) z = x^2 y - \sqrt{\frac{2x - x^2 - y^2}{x^2 + y^2 - 4x}},$$

$$4) z = \arccos(x^2 + y^2 - 1) + \sqrt{2x + y},$$

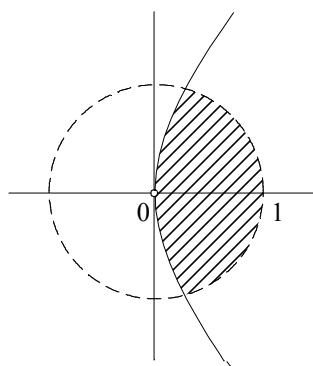
$$5) z = \ln[16 - x^2 - 4y^2] + \arcsin\left(\frac{y}{x^2}\right),$$

Výsledky cvičení:

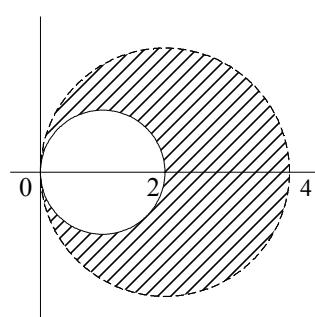
1)



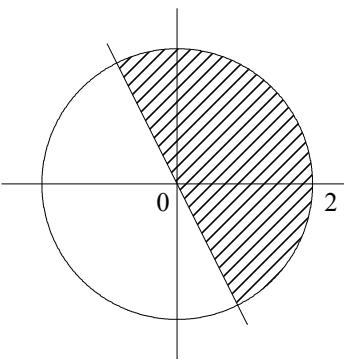
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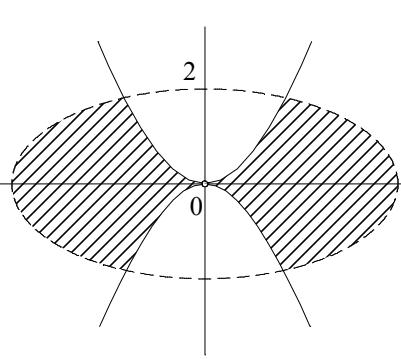
3)



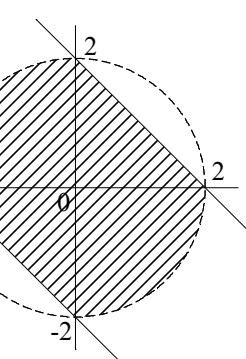
4)



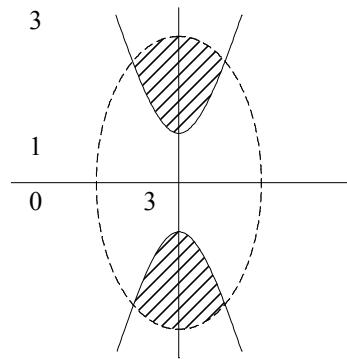
5)



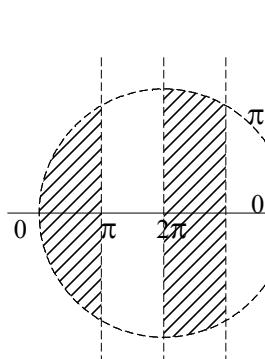
6)



7)



8)



9)

