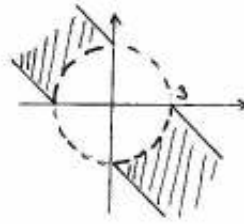
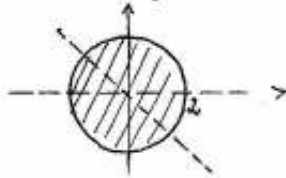


DEF. OBORY FCE 2 PROMĚNNÝCH

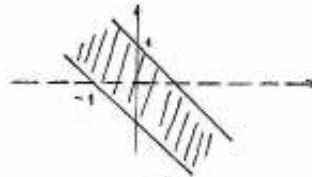
1) $z = \ln(x^2 + y^2 - 9) - x \cdot \arccos \frac{x+y}{3}$



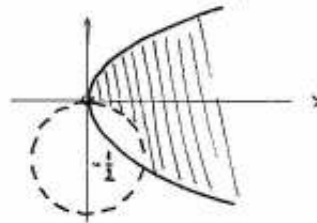
2) $z = \frac{\sqrt{4-x^2-y^2}}{x+y} - \sqrt[3]{x-y} + \frac{1}{y} \cdot \sin(x^2-y^2)$



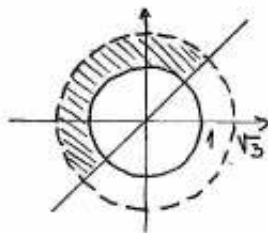
3) $z = \frac{\arcsin(x+y)}{\arctan y} + e^{x-y}$



4) $z = \frac{\arctan(x+1)}{\sqrt{x^2+y^2+y}} + e^{\sqrt{x-y^2}}$

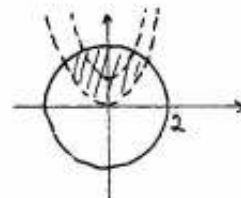


5)

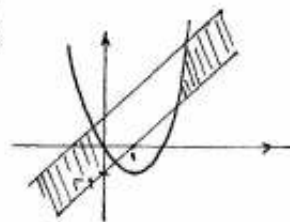


$z = x^2 \cdot \sqrt{x^2+y^2-1} + \ln(3-x^2-y^2) - \sqrt{y-x}$

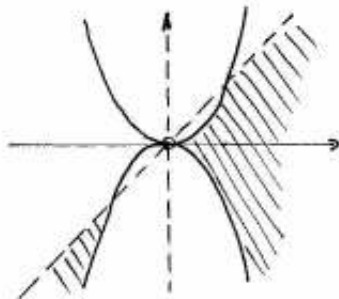
6) $z = \frac{\sqrt{e^{\sin x}}}{\operatorname{arccot} y} + \frac{\sqrt{4-x^2-y^2}}{\ln(y-x^2)}$



7) $z = \sqrt{x^2-2x-y} + \sin\left(\frac{x+y}{2}\right) - \arccos(x-y)$

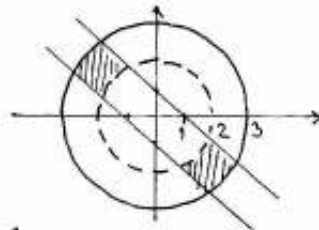


8)

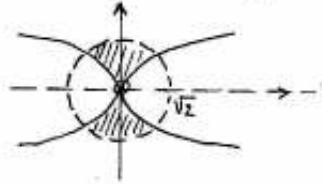


$z = \arcsin \frac{y}{x^2} + \ln(x-y)$

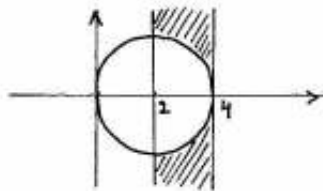
$$9) z = \arccos(x+y) + \sqrt[4]{9-x^2-y^2} \cdot \ln(x^2+y^2-4)$$



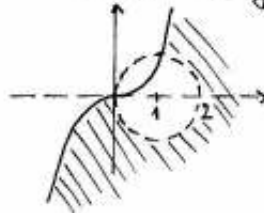
$$10) z = \arctan \frac{x}{z} + \arcsin \frac{x}{y^2} \cdot \ln(2-x^2-y^2)$$



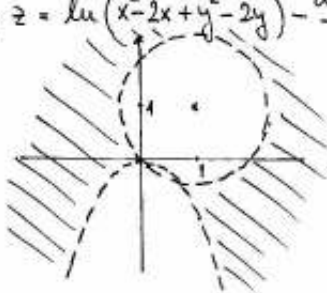
$$11) z = x \cdot \sqrt{x^2+y^2-4x} + \arcsin(x-3)$$



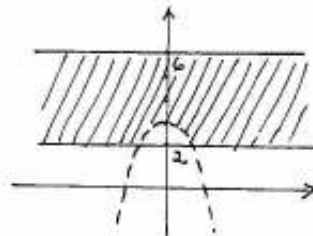
$$12) z = \ln(x^2+y^2-2x) + \frac{1}{y} \sqrt{x^2-y}$$



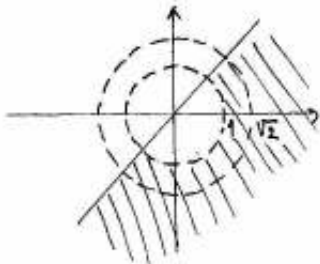
$$13) z = \ln(x^2-2x+y^2-2y) - \frac{\arctan(\frac{x-y}{y+x^2})}{\sqrt{y+x^2}}$$



$$14) z = \arccos\left(\frac{y-4}{2}\right) - \ln(x^2+y-3) + \sqrt[3]{x}$$



$$15) z = \frac{x}{\ln(x^2+y^2-1)} - \sqrt{x-y}$$



$$16) z = \sqrt{2y-y^2-x^2} + \ln(1-y) + \frac{\arctan(2x+y)}{x}$$

