

Definiční obor

$$f(x, y) = \sqrt{16 - y^2} + \ln \frac{x^2 + y^2 - 4}{2x + y + 2}$$

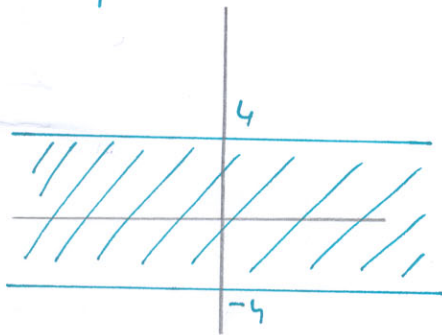
I) $16 - y^2 \geq 0$

odmocnina

$$-y^2 \geq -16 \quad | \cdot (-1)$$

$$y^2 \leq 16 \quad | \sqrt{\quad}$$

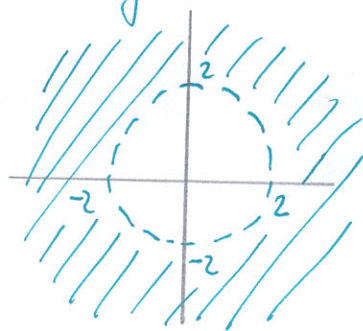
$$|y| \leq 4$$



II) $\frac{x^2 + y^2 - 4}{2x + y + 2} > 0$

ln

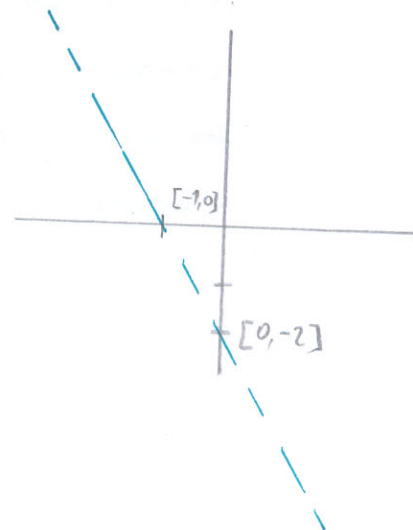
$$x^2 + y^2 > 4$$



III) $2x + y + 2 \neq 0$

zlomek

$$y \neq -2x - 2$$



Pozn: nulová křivka - znaménko

