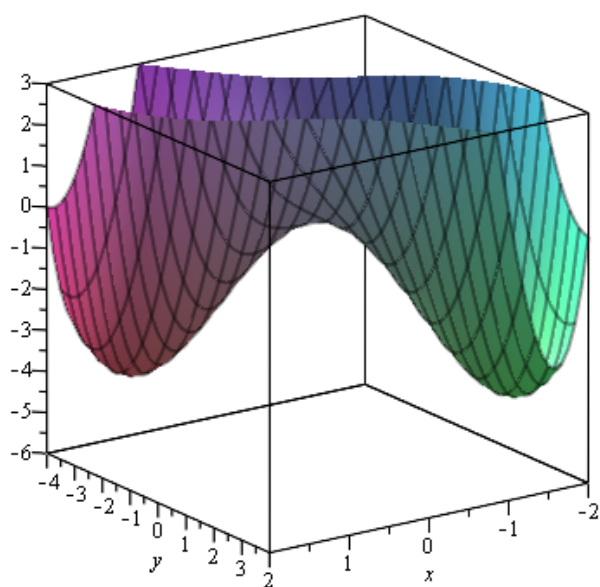


Pr. 7, tri stacionárni body

$$z_7 := x^4 + 4xy + y^2$$
$$x = \sqrt{2}, y = -2\sqrt{2}, f_{\min} = -4$$
$$x = -\sqrt{2}, y = 2\sqrt{2}, f_{\min} = -4$$
$$x = 0, y = 0, \textit{sedlo}$$

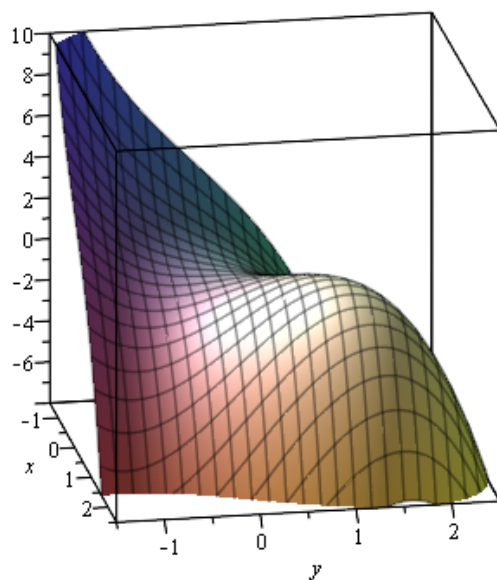


Pr. 5, soustava dvou kvadratických rovnic, dva stacion. body

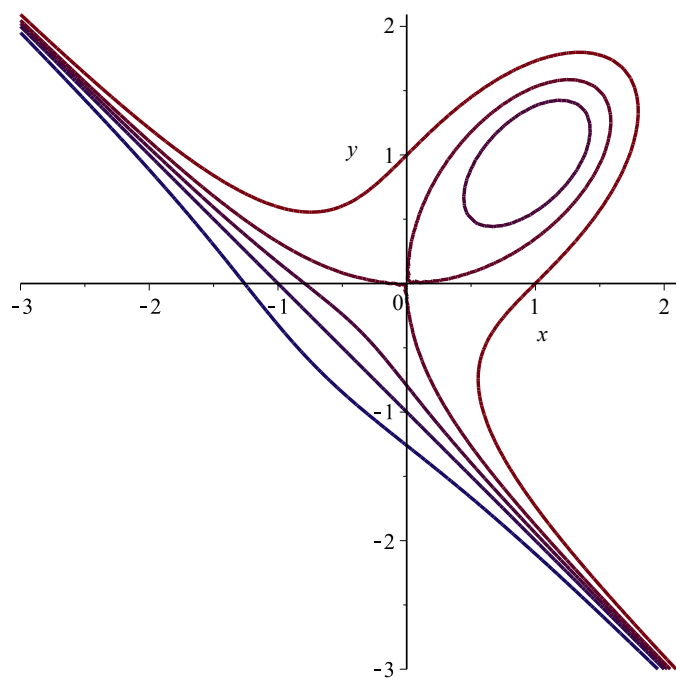
$$z5ZkA := 3xy - x^3 - y^3$$

$$x = 1, y = 1, f_{\max} = 1$$

$$x = 0, y = 0, \textit{sedlo}$$



Izokrivky



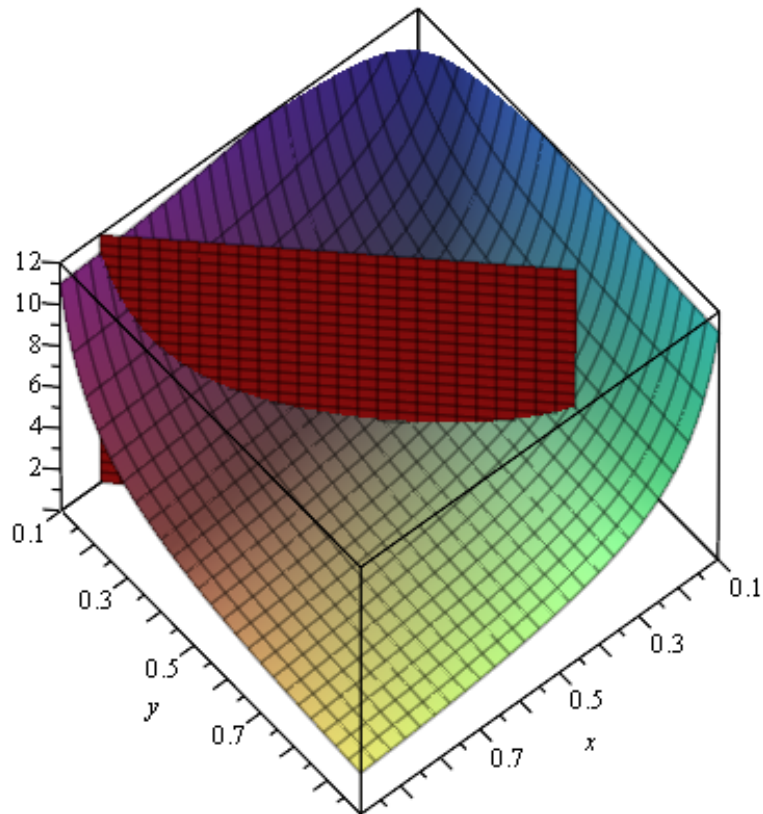
Absolutní extrémy

>  $f(x, y) = 1/x + 1/y$ ;  $M: x + y = 1$ ,  $x = 1/4 \dots 9/10$ ;

$$f(x, y) = \frac{1}{x} + \frac{1}{y}$$

$$M: x + y = 1, x = \frac{1}{4} \dots \frac{9}{10}$$

(3)



prostorová křivka

