ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

ΤΜΗΜΑ ΠΛΗΡΟΦΟΡΙΚΗΣ ΚΑΙ ΤΗΛΕΠΙΚΟΙΝΩΝΙΩΝ

Ανάλυση ΙΙ

Αρχείο Γραφημάτων Συναρτήσεων

ΟΜΑΔΑ Α

Υλοποίηση:

Αγγελόπουλος Βασίλης

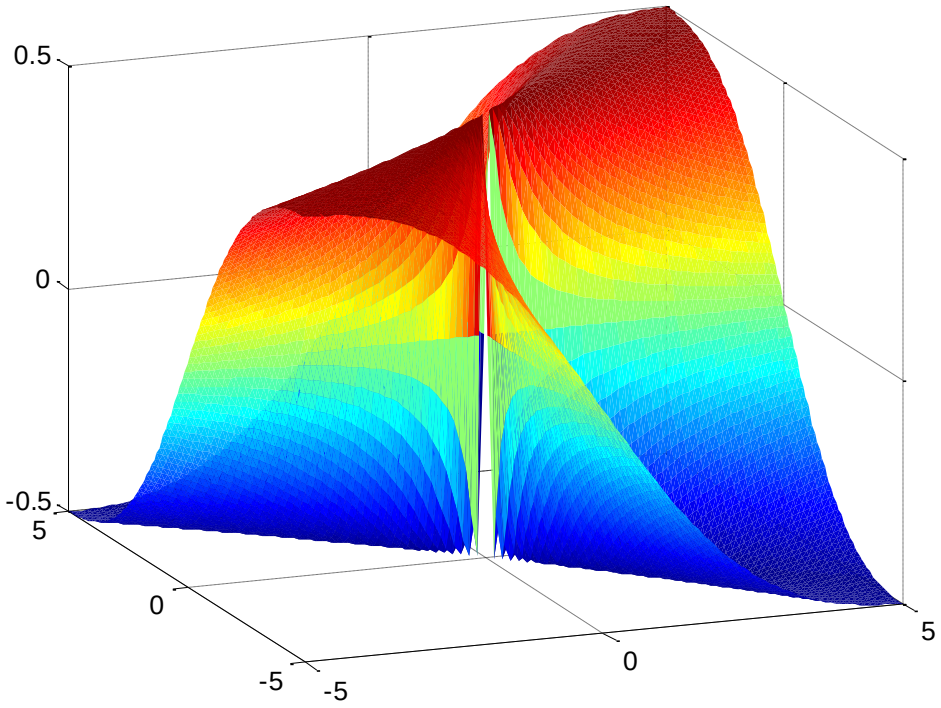
ΔΙΔΑΣΚΟΥΣΑ: Αναπληρώτρια Καθηγήτρια Ευαγγελάτου-Δάλλα Λεώνη

Αθήνα – 2011

Σημείωση: Τα σχήματα αντιστοιχούν στα αρχεία MATLAB, τα οποία βρίσκονται στο **Figure_Codes_1.rar/GROUP A**. Το κάθε σχήμα αναφέρεται στο ανάλογο .m file με τον αριθμό που βρίσκεται δίπλα σε αυτό.

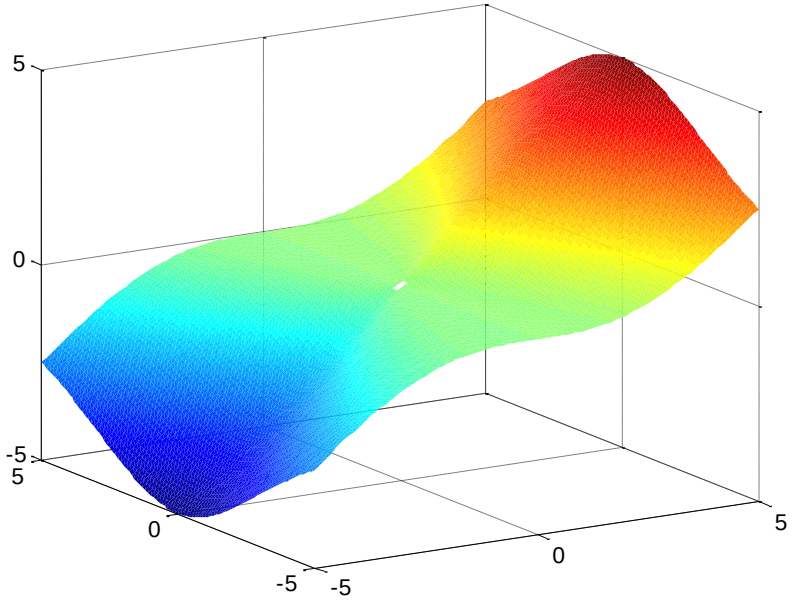
A1.

$$f(x,y)=\frac{xy}{x^2+y^2}$$



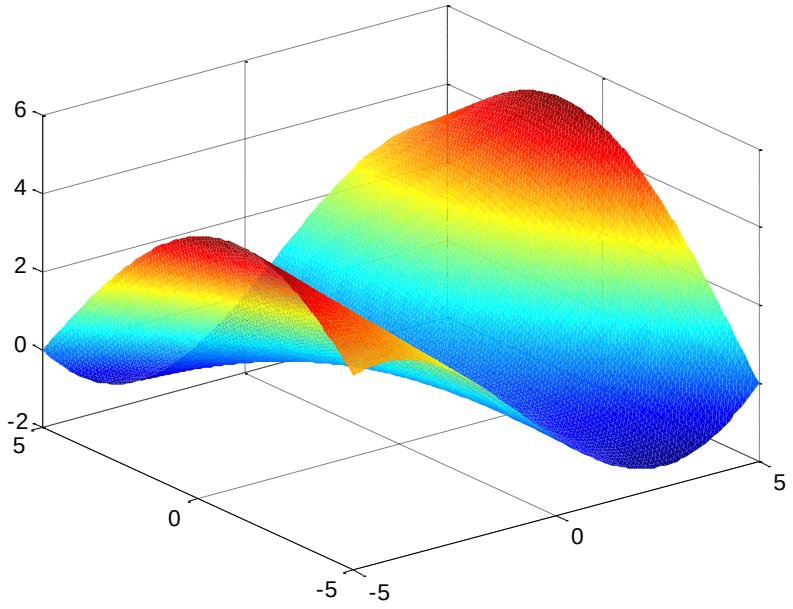
A2.

$$f(x,y)=\frac{x^3}{x^2+y^2}$$



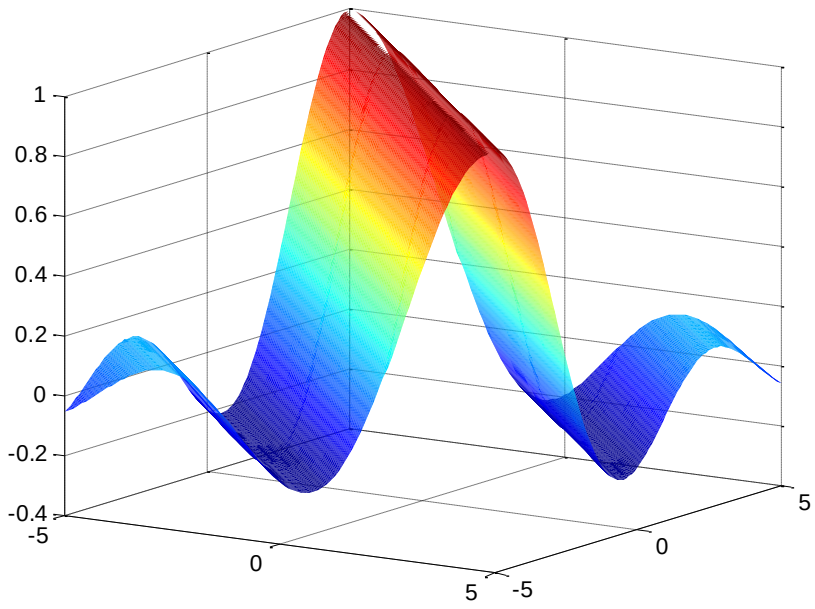
A3.

$$f(x,y)=x\cos(\frac{x+y}{4})$$



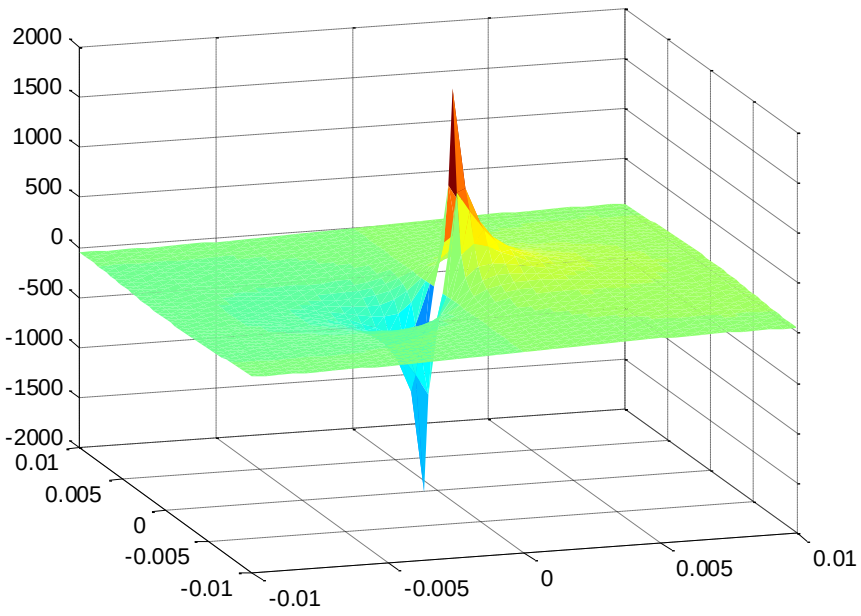
A4.

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



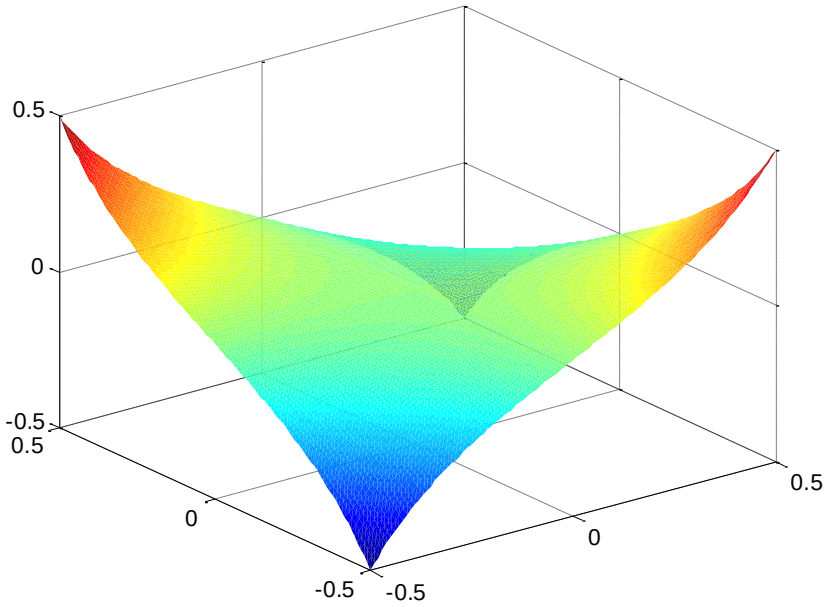
A5.

$$f(x,y)=\frac{x}{x^2+y^2}$$



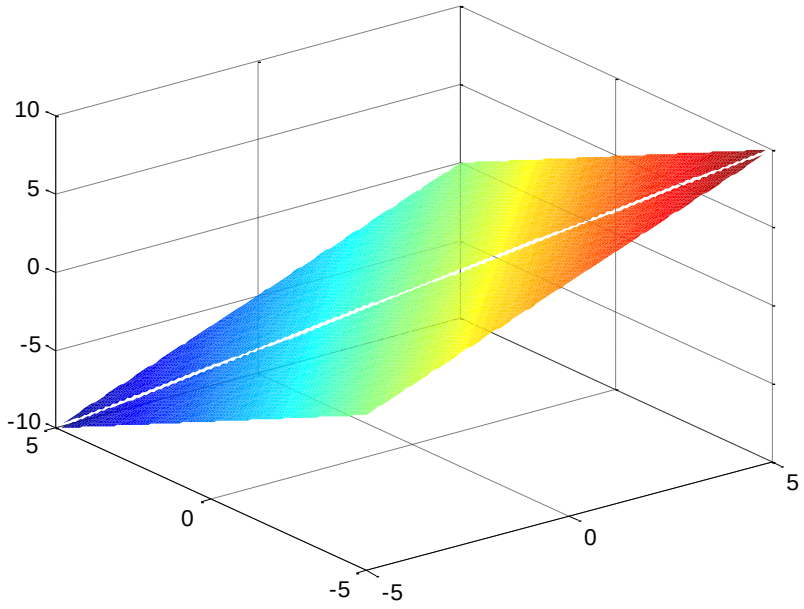
A6.

$$f(x,y)=\frac{xy}{x^2+y^2-1}$$



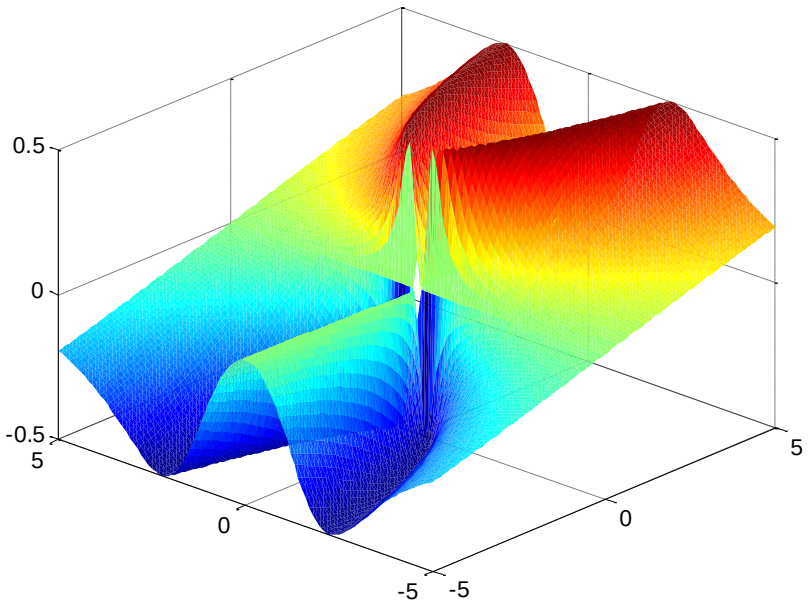
A7.

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



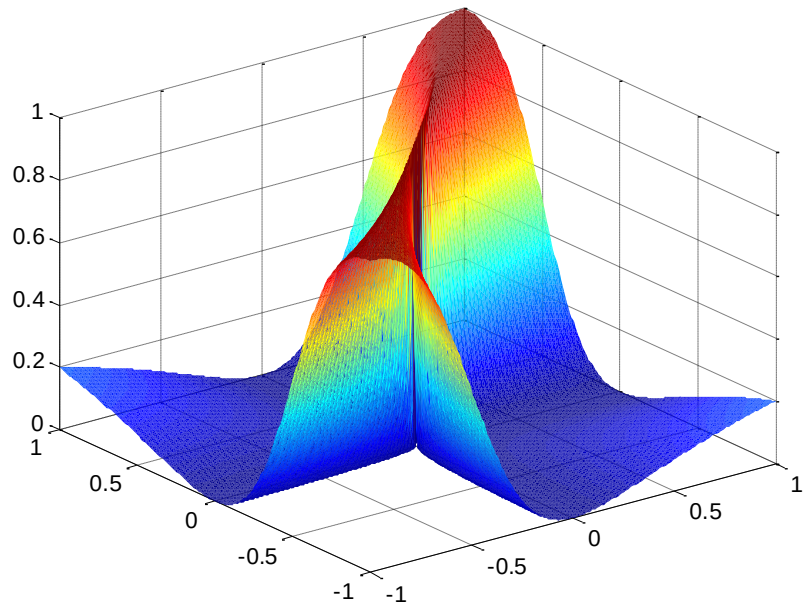
A8.

$$f(x,y)=\frac{xy^2}{x^2+y^4}$$



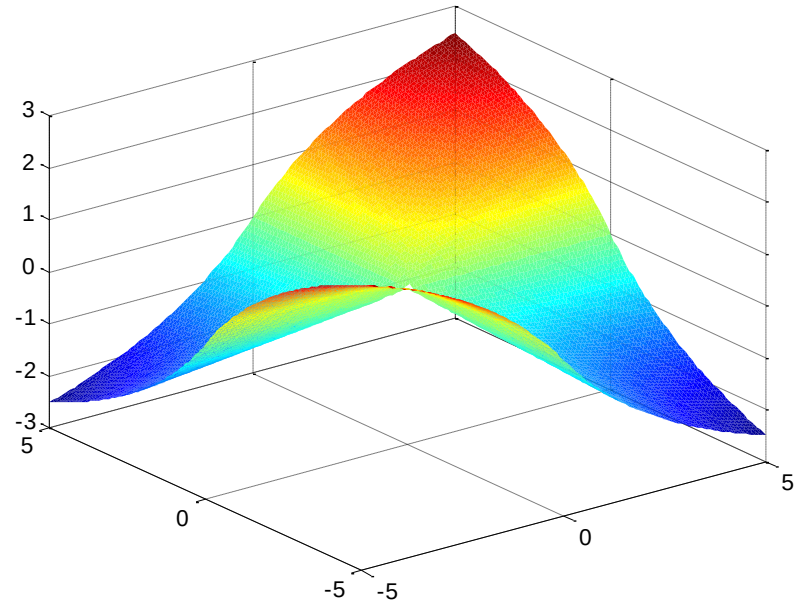
A9.

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



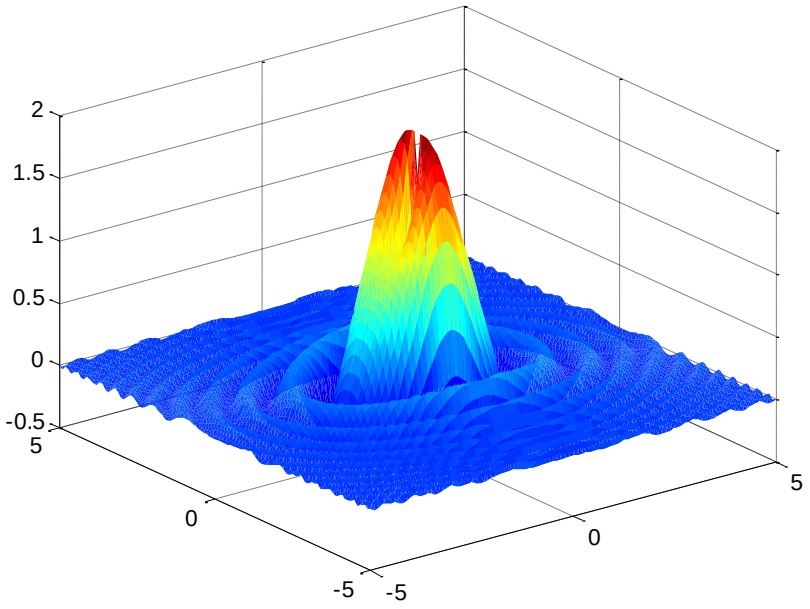
A10.

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



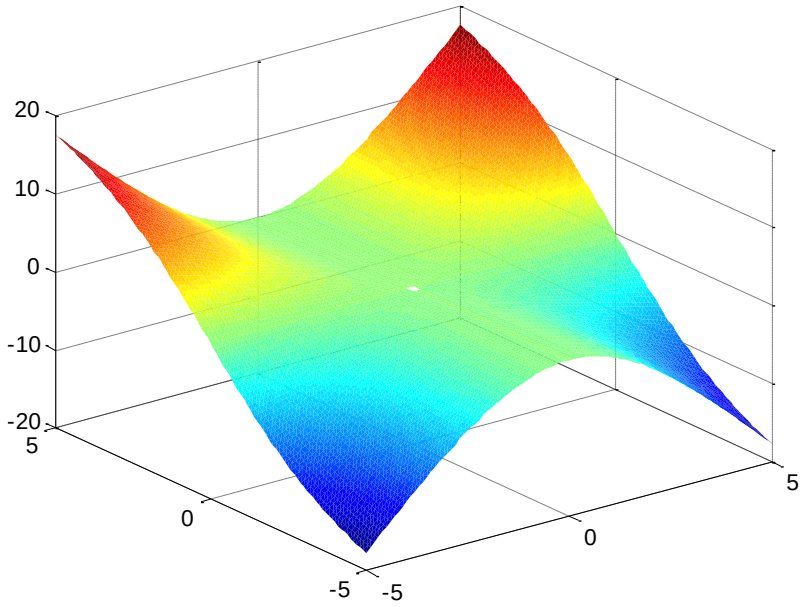
A11.

$$f(x,y)=\frac{\sin(x^2+2y^2)}{x^2+y^2}$$



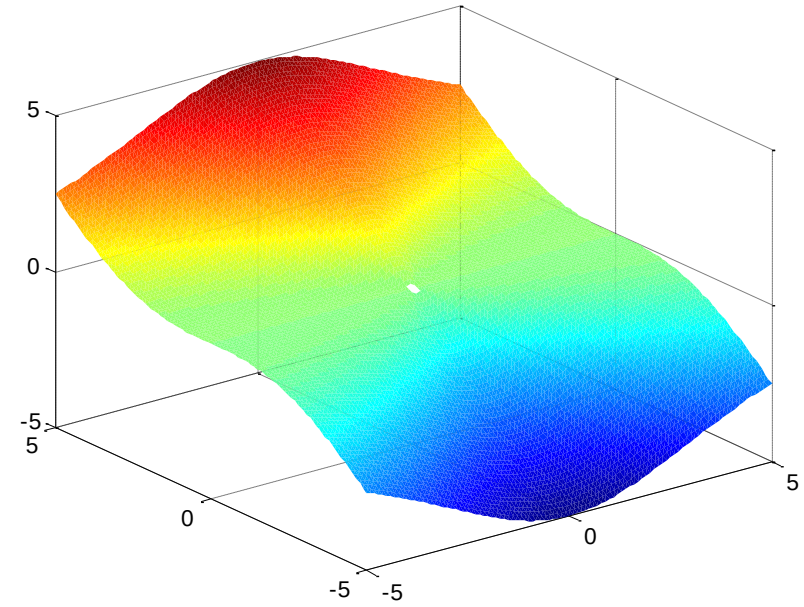
A12.

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



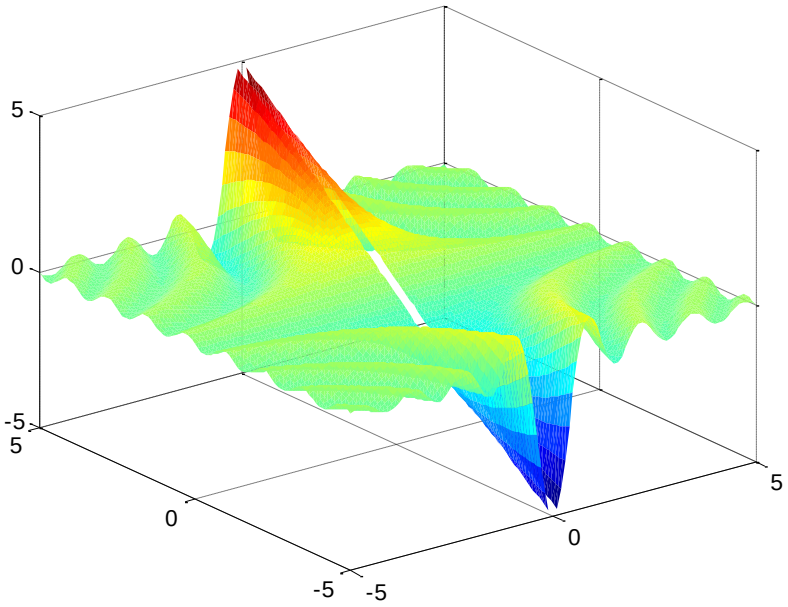
A13.

$$f(x,y)=\frac{y^3}{x^2+y^2}$$



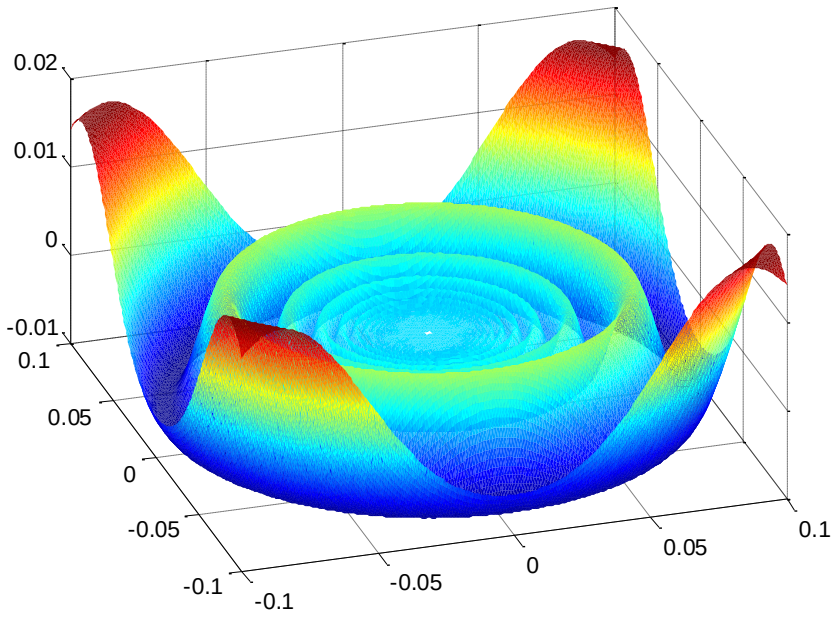
A14.

$$f(x,y)=\frac{\sin(xy)}{x}$$



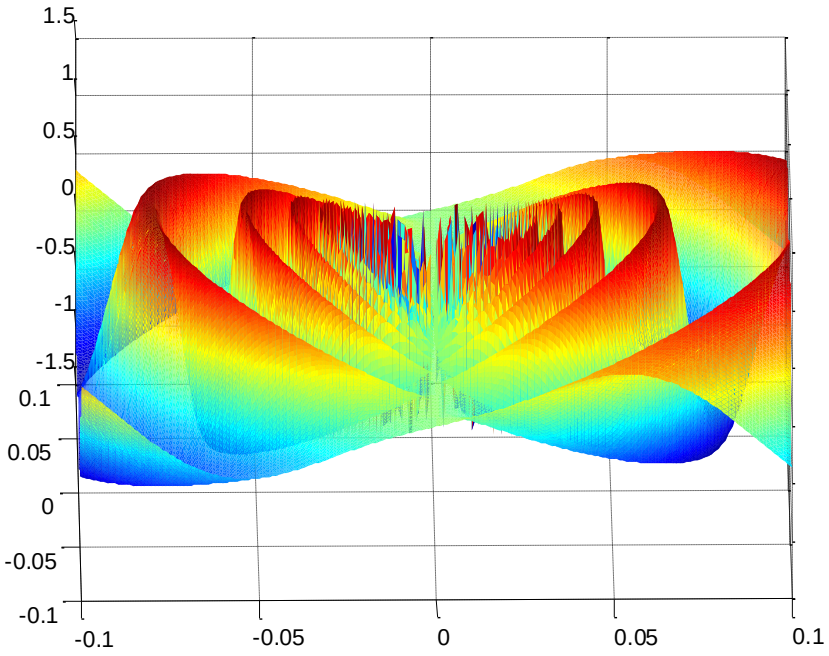
A15.

$$f(x,y)=(x^2+y^2)\sin(\frac{1}{\sqrt{x^2+y^2}})$$



A16.

$$\frac{\partial f(x,y)}{\partial x} = \frac{\partial\left[(x^2+y^2)\sin(\frac{1}{\sqrt{x^2+y^2}})\right]}{\partial x}$$



A17.

$$\frac{\partial f(x,y)}{\partial y} = \frac{\partial\left[(x^2+y^2)\sin(\frac{1}{\sqrt{x^2+y^2}})\right]}{\partial y}$$