У каждой функции область определения равна:

$$D = \{(x, y) : \ x \in [-20, 20], \ y \in [-20, 20]\}$$

1. $f(x, y) = e^{-|xy|/20} \cdot \sin^2(x/5)$
2. $f(x, y) = 2^{-x^2/100} \cdot \cos^2(xy/100)$
3. $f(x, y) = e^{-|y|/20} \cdot |\sin(x + y)/10|$
4. $f(x, y) = \dfrac{e^{x/20-1}}{1 + y^2/100}$
5. $f(x, y) = 2^{-|y/10|-2} \cdot (\sin(x/10) + \sin(y/8) + 2)$
6. $f(x, y) = \dfrac{1 + |x + y|}{1 + x^2 + y^2}$
7. $f(x, y) = \dfrac{1 + \sin \sqrt[3]{x}}{\sqrt[4]{16 + y^2}}$
8. $f(x, y) = \dfrac{e^{y/30-1}}{1 + x^2/80}$
9. $f(x, y) = (x^2/400 + 1) \cdot (y^2/400 + 1) \cdot |x|/100$
10. $f(x, y) = e^{x/20-1} - e^{y/20-1} + 3/4$

11. $f(x,y) = (\sin x/6 \cdot \sin y/6 + 1)/2$
12. $f(x,y) = x^2/800 - y^2/800 + 1/2$
13. $f(x,y) = \dfrac{2xy}{(1+x^2)(1+y^2)} + 1/2$
14. $f(x,y) = \dfrac{2x+y}{8(1+x^2/20)(1+y^2/20)} + 1/2$
15. $f(x,y) = e^{-\frac{x^2+y^2}{100+x+y}}$
16. $f(x,y) = e^{-\frac{|x|+|y|}{\sqrt{100+x+y}}}$
17. $f(x,y) = e^{-\frac{1+|x|+|y|}{\sqrt{100+x-y}}}$
18. $f(x,y) = e^{-\frac{1+|x|/|y|}{\sqrt{100+x+y}}}$
19. $f(x,y) = e^{-\frac{40-|x|-|y|}{\sqrt{100+x+y}}}$
20. $f(x,y) = e^{-\frac{40-|x|-|y|}{\sqrt{100+xy}}}$
21. $f(x,y) = (x^2 - 3y^2 + 2x)/500$
22. $f(x,y) = (2x^2 - y^2 - xy)/500$
23. $f(x,y) = (x^2 + 4y^2 - 2xy)/2000$

24. $f(x,y) = (\sin x/3 \cdot \cos y/10 + 1)/2$

25. $f(x,y) = \dfrac{e^{x/20} - e^{-y/20}}{2}$

26. $f(x,y) = \dfrac{ye^{x/20} + xe^{-y/20}}{100} + 1/2$

27. $f(x,y) = \dfrac{ye^{x^2/400} + xe^{-y^2/400}}{100} + 1/2$

28. $f(x,y) = \dfrac{xe^{x^2/400} - ye^{-y^2/400}}{100} + 1/2$

29. $f(x,y) = \dfrac{y^2e^{x^2/400} + x^2e^{-y^2/400}}{1000} + 1/2$

30. $f(x,y) = (\cos x/5 \cdot \cos y/7 + 1)/2$

31. $f(x,y) = (\cos x/10 \cdot \sin y/4 + 1)/2$

32. $f(x,y) = (\cos x/8 + 2\cos y/4)/2$

33. $f(x,y) = (4\cos x/4 - 8\sin y/8)/20 + 1$

34. $f(x,y) = \sqrt{x^2 + y^2}/40 - xy/400$

35. $f(x,y) = \sqrt{x^4 + y^4}/600$

36. $f(x,y) = \sqrt{|x^3 + 3y^3|}/150$

37. $f(x,y) = 1/(|x|+4) + 3/(y^2+4)$

38. $f(x,y) = 1/(|x|+2) + 1/(|y|+2)$

39. $f(x,y) = 3/(x^2+8) + 5/(y^2+8)$

40. $f(x,y) = \dfrac{\sqrt{1+x^2}+\sqrt{1+y^2}}{2\sqrt{1+x^2}\sqrt{1+y^2}}$

41. $f(x,y) = \dfrac{3\sqrt{1+x^2}+5\sqrt{1+y^2}}{5\sqrt{1+x^2}+7\sqrt{1+y^2}}$