1. Consider the following level curves. Answer the questions below.

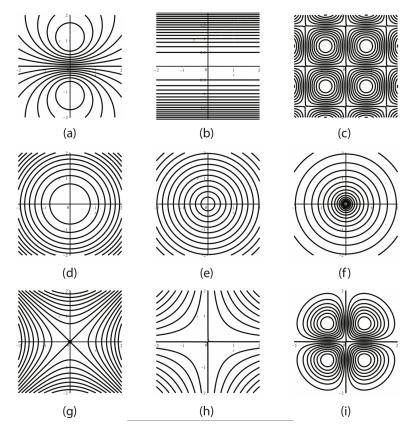
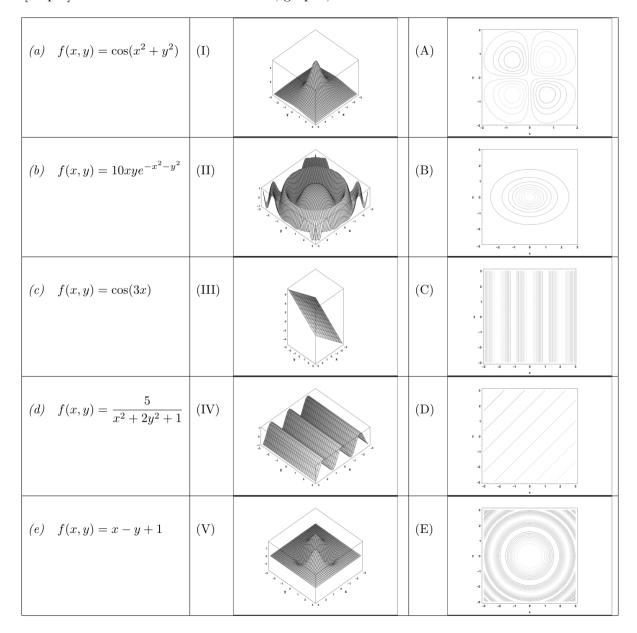


Figure 1:

- (a) [2 pts] Which picture represents the level curves of $f(x,y) = y^2$
- (b) [2 pts] Which picture represents the level curves of $f(x,y) = \sin(2x)\sin(2y)$?
- (c) [2 pts] Which picture represents the level curves of f(x,y) = xy?
- (d) [2 pts] Which picture represents the level curves of $f(x,y) = \sqrt{x^2 + y^2}$?
- (e) [2 pts] Which picture represents the level curves of $f(x,y) = (x^2 + y^2)^2$?

2. [10 pts] Consider the table of functions, graphs, and level curves shown below.



By filling in the table below, correctly match these functions, graphs, and level curves.

Function	Graph	Level Curves
C\	I	E
6	V	A
C	10	C
d	I	B
e	III	D