In-Class Quiz 2: Functions of several variables (§12.1-12.2)

Directions: This quiz is due at the end of lecture.

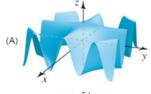
1. Match functions (a)-(d) with surfaces (A)-(D).

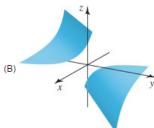
(a)
$$f(x,y) = \frac{6}{x-y}$$

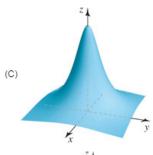
(b)
$$g(x,y) = \ln(x^2 + y^2)$$

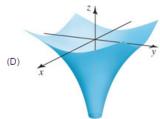
(c)
$$h(x,y) = \frac{1}{1+x^2+y^2}$$

(d)
$$p(x,y) = \cos xy$$









2. To which coordinate axes are the following cylinders parallel in \mathbb{R}^3 ?

(a)
$$3z^2 + 2y^2 = 9$$

(b)
$$x^2 + y^2 = 9$$

(c)
$$x^2 + z^2 = 9$$