

# The Matching Game

Match each function with its graph. Give reasons for your choices.

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

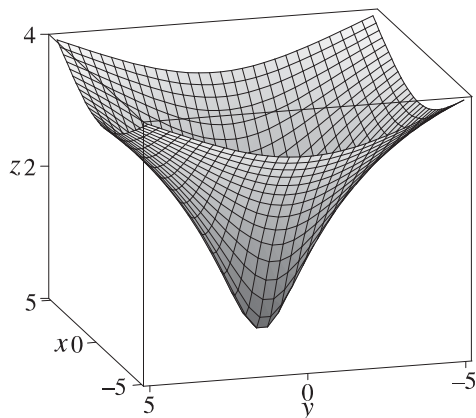
2.  $f(x, y) = \sqrt{4 - x^2 - y^2}$

3.  $f(x, y) = \cos(x + y^2)$

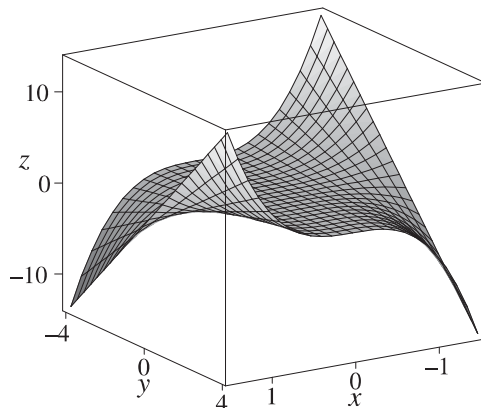
4.  $f(x, y) = \ln(x^2 + y^2 + 1)$

5.  $f(x, y) = x^2\sqrt{y}$

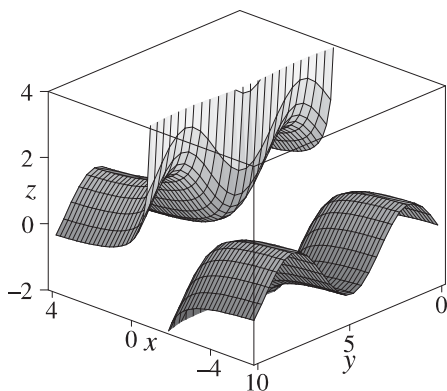
6.  $f(x, y) = x^3y$



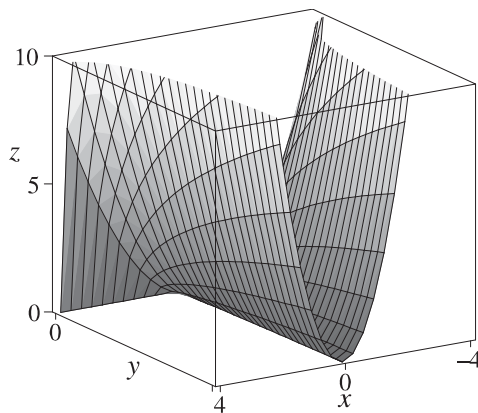
I



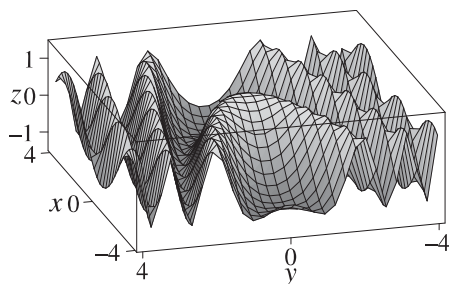
II



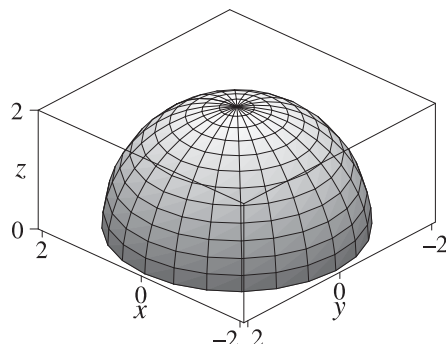
III



IV



V



VI