The graded part of the homework is on WebAssign. The problems below are also assigned and you are responsible for doing them, but they will not be collected or graded.

601. On the contour plot of \( z = f(x, y) \) below:
   (a) Draw the path of steepest ascent starting at point \( P \).
   (b) Draw the gradient vector at point \( Q \).
   (c) What are the signs (positive, negative, or zero) of \( D_1 f \) and \( D_2 f \) at point \( P \)? At point \( Q \)?