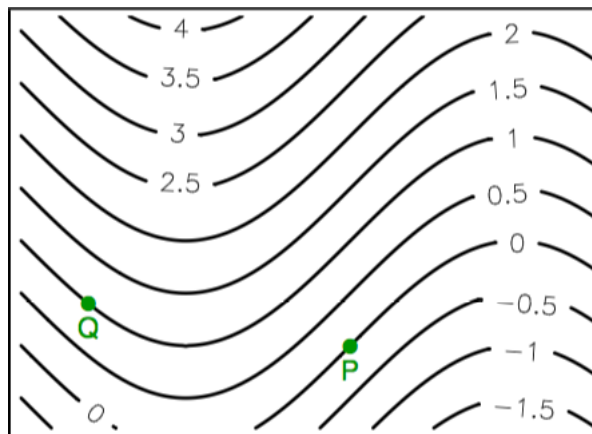Math 20C – Swanson – Fall 2020
Homework 6
Due Friday, 11/20/20 at 11:59pm

- 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.

1. The contour plot of $z = f(x, y)$ is 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 $D_{\hat{\imath}}f$ and $D_{\hat{\jmath}}f$ at point P? At point Q?