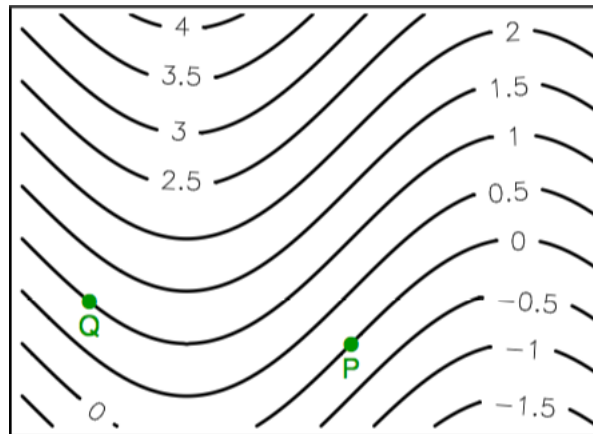


Math 20C – Swanson – Winter 2021
Homework 6
Due Sunday, 2/21/21 at 11:59pm

- 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.



- Draw the path of steepest ascent starting at point P .
- Draw the gradient vector at point Q .
- What are the signs (positive, negative, or zero) of $D_i f$ and $D_j f$ at point P ? At point Q ?