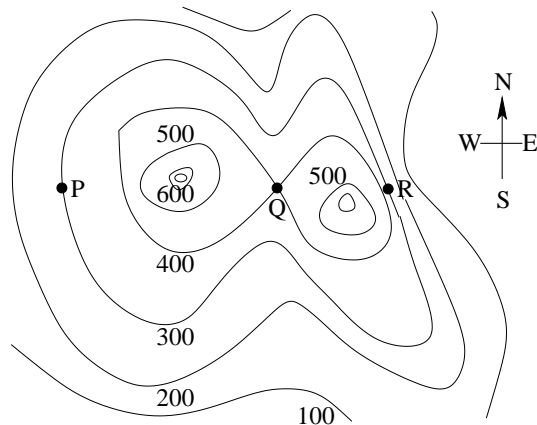# Partial Differentiation
Functions of more than one variable

Question

(a) Is the landscape steepest at point P or R?

How can you tell?

(b) Describe the topography of the region around Q.

Answer

(a) The landscape is steepest at R. This is because at this point, the level curves are closer together.

(b) Q is a "pass" between the two peaks to the east and to the west. The land is level at Q, but rises as you move east/west and falls as you move north/south.