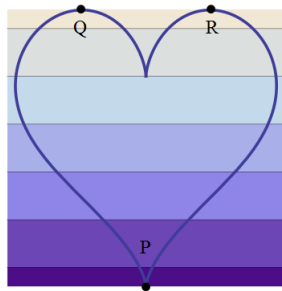# Lagrange Multipliers

Question

In minimizing $f(x, y) = y$ along the curve $g(x, y) = 0$ shown, the method of Lagrange Multipliers will fail. Why?

- A. The minimum occurs at P but $\nabla g = \vec{0}$ at P.
- B. g is not differentiable at P.
- C. The method of Lagrange Multipliers will only detect the points Q and R.
- D. More than one but not all of the above.