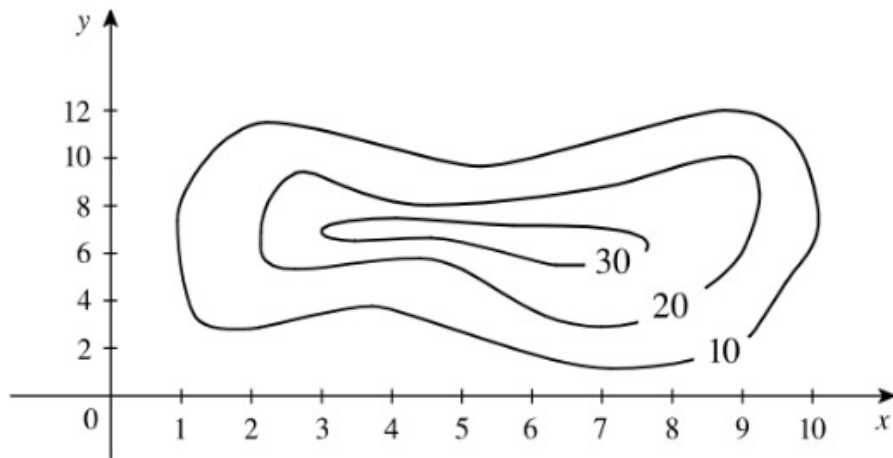


11.1 - Using contour maps

Consider the following contour map of a continuous function $f(x, y)$.



1. For approximately what values of y is it true that $10 \leq f(5, y) \leq 30$?
2. What do you estimate $f(2, 4)$ to be, and why?
3. What do you estimate for $f(6, 6)$? Explain.
4. How many values of y satisfy $f(7, y) = 20$? (Hint: Draw a line that includes all the points having coordinates $(7, y)$ where y could be any real number.)
5. How many values of x satisfy $f(x, 8) = 20$?