

## Check your understanding

23. Can different level sets of the same function ever cross each other?
- (a) Yes.
  - (b) No.
24. If contour lines are close together, what does this mean about the function?
- (a) The function changes rapidly as one moves across the contour lines.
  - (b) The function changes slowly as one moves across the contour lines.
  - (c) Neither.

Answers: (b), (a).

Explanation: Two different level sets cannot cross, because a function cannot have two different values at the same point.