

Sec. 14.1 Functions of Several Variables

☞ Please read through Sec. 14.1, Functions of Several Variables, in our textbook.

1. The definition, computation, domain, range, and graphing should all be familiar from functions of a single variable.
2. Pay careful attention to level curves (often called *contours*).
3. Please navigate to the following web pages, read the material, and play with the graphics.
 - http://mathinsight.org/level_sets
 - http://mathinsight.org/level_set_examples
 - <http://tutorial.math.lamar.edu/Classes/CalcIII/MultiVrbleFcns.aspx>
4. After you complete the reading, do the assignment from Sec. 14.1.

Sec. 14.2 Limits and Continuity

☞ Please read through Sec. 14.2, Limits and Continuity, in our textbook.

1. Pay particular attention to showing how a limit does *not* exist.
2. Please navigate to the following web pages, watch the video, read the material, and study the examples.
 - <http://www.youtube.com/watch?v=d0SPcQNY78E>
 - <http://tutorial.math.lamar.edu/Classes/CalcIII/Limits.aspx>
3. After you complete the reading, do the assignment from Sec. 14.2.