Midterm 2 Name:

Compute a limit of a function of several variables	/20
Convert a limit in cartesian coordinates to polar coordinates	/5
Define continuity for functions of several variables	/5
Give an example of a limit that does not exist	/5
Compute partial derivatives	/25
Compute the gradient	/10
Compute the directional derivative	/10
Compute higher partial derivatives	/10
Illustrate that higher partials commute	/5
Describe what a partial derivative is measuring	/5
Write down a linear approximation to a function	/20
Chain rule	/35
Define global/local max/min	/5
Find critical points	/20
Find max and min values	/20
Apply second derivative test	/5
Use Lagrange multipliers	/20
Total:	/225