MATH 253: Calculus III Project: #1 Multivariable Differentiation

Sele	ct your project team: (Recommended: 4 students.) Wo	orking Sec:
1.	Name:	Sec:
	Email:	Phone:
2.	Name:	Sec:
	Email:	Phone:
3.	Name:	Sec:
	Email:	Phone:
4 .	Name:	Sec:
	Email:	Phone:

Indicate your preference on projects: (1 for first choice down to 8 for last choice.)

 10.3	Newton's Method in 2 Dimensions, requires a Maple program	
 10.4	Gradient Method of Finding Extrema, requires a Maple program	
 10.5	Seeing a Blimp	
 10.6	The Trash Dumpster	
 10.7	Generalized Diameters	
 10.8	Locating an Apartment	
 Minimal Rectangles and Triangles (Stewart p. 792 \#5 + similarly w. triangles)		
 Exact C	Gradient Method (Stewart p. 793 \#11 or p. 866 \#2), requires a Maple program	

MATH 253: Calculus III Project: #2 Multivariable Integration

Select your project team: (Recommended: 4 students.) Wor		Working Sec:
1.	Name:	Sec:
	Email:	Phone:
2.	Name:	Sec:
	Email:	Phone:
3.	Name:	Sec:
	Email:	Phone:
4.	Name:	Sec:
	Email:	Phone:

Indicate your preference on projects: (1 for first choice down to 8 for last choice.)

 9.9, 9.10) Gauss' Law and Ampere's Law
 9.11, 9.1	2 Interpretation of Divergence and Curl
 10.9	Skimpy Donut
 10.10	Volume Between a Surface and Its Tangent Plane
 10.11	Hypervolume of a Hypersphere
 10.12	Average Temperatures
 10.13	Center of Mass of Planet X
 10.14	Steradian Measure