

Calculus III Project: #1 Multivariable Differentiation

Select your project team: (Recommended: 4 students.) 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.)

- _____ Newton's Method in 2 Dimensions (10.3) requires a Maple program
- _____ Gradient Method of Finding Extrema (10.4) requires a Maple program
- _____ Seeing a Blimp (10.5)
- _____ The Trash Dumpster (10.6)
- _____ Locating an Apartment (10.7)
- _____ Minimal Rectangles and Triangles (Stewart p. 792 \#5 + similarly w. triangles)
- _____ Exact Gradient Method (Stewart p. 793 \#11 or p. 866 \#2) requires a Maple program
- _____ Minimal Ellipse Containing a Circle (Stewart p. 793 \#13))

Calculus III Project: #2 Multivariable Integration

Select your project team: (Recommended: 4 students.) 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 7 for last choice.)

- _____ Gauss' Law and Ampere's Law (9.9, 9.10)
 _____ Interpretation of Divergence and Curl (9.11, 9.12)
 _____ Skimpy Donut (10.8)
 _____ Volume Between a Surface and Its Tangent Plane (10.9)
 _____ Hypervolume of a Hypersphere (10.10)
 _____ Center of Mass of Planet X (10.11)
 _____ Steradian Measure (10.12)