3-Feb 12.1-12.2(Functions of several variables) 10-Feb	us Overview + 3D Coordinate metry + 13.1 (Vectors in 3D) 29-Jan Lines and Planes 5-Feb 12.5 (Contour Plots) + Conic tions and Quadric Surfaces 12-Feb Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	23-Jan Lab 0 (Intro to Mathematica + Vectors) 30-Jan Lab 1 (Lines and Planes) + Distances 6-Feb Quiz 1 13-Feb Lab 3 (Parametric Plotting)	24-Jan 13.3 (Dot Product, Angle, Projection) 31-Jan Practice Problems 7-Feb Lab 2 (3D Graphing and Contour Plots, Linear Functions) 14-Feb Epicycloid and the Rotary Engine
3-Feb 12.1-12.2(Functions of several variables) 10-Feb 17.1 (Parametrized Curves - Straight line, Circle, Helixes) 17-Feb	29-Jan Lines and Planes 5-Feb 12.5 (Contour Plots) + Conic tions and Quadric Surfaces 12-Feb Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	Vectors) 30-Jan Lab 1 (Lines and Planes) + Distances 6-Feb Quiz 1 13-Feb Lab 3 (Parametric Plotting)	Practice Problems 7-Feb Lab 2 (3D Graphing and Contour Plots, Linear Functions) 14-Feb Epicycloid and the Rotary Engine
13.4 (Cross Product, Area, Volume) 3-Feb 12.1-12.2(Functions of several variables) 10-Feb 17.1 (Parametrized Curves - Straight line, Circle, Helixes) 17-Feb	Lines and Planes 5-Feb 12.5 (Contour Plots) + Conic tions and Quadric Surfaces 12-Feb Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	Lab 1 (Lines and Planes) + Distances 6-Feb Quiz 1 13-Feb Lab 3 (Parametric Plotting)	Practice Problems 7-Feb Lab 2 (3D Graphing and Contour Plots, Linear Functions) 14-Feb Epicycloid and the Rotary Engine
3-Feb 12.1-12.2(Functions of several variables) 10-Feb 17.1 (Parametrized Curves - Straight line, Circle, Helixes) 17-Feb	5-Feb 12.5 (Contour Plots) + Conic tions and Quadric Surfaces 12-Feb Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	Distances 6-Feb Quiz 1 13-Feb Lab 3 (Parametric Plotting)	7-Feb Lab 2 (3D Graphing and Contour Plots, Linear Functions) 14-Feb Epicycloid and the Rotary Engine
12.1-12.2(Functions of several variables) 10-Feb 17.1 (Parametrized Curves - Straight line, Circle, Helixes) 17-Feb	12.5 (Contour Plots) + Conic tions and Quadric Surfaces 12-Feb Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	Quiz 1 13-Feb Lab 3 (Parametric Plotting)	Lab 2 (3D Graphing and Contour Plots, Linear Functions) 14-Feb Epicycloid and the Rotary Engine
variables) Sect 10-Feb 17.1 (Parametrized Curves - Straight line, Circle, Helixes) 17-Feb	Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	13-Feb Lab 3 (Parametric Plotting)	Plots, Linear Functions) 14-Feb Epicycloid and the Rotary Engine
17.1 (Parametrized Curves - Straight line, Circle, Helixes) 17-Feb	Motion, Velocity, Speed and Distance, Cycloid) 19-Feb Review	Lab 3 (Parametric Plotting)	Epicycloid and the Rotary Engine
line, Circle, Helixes)	Distance, Cycloid) 19-Feb Review	Ü	
	Review	20-Feb	
Practice Problems			21-Feb
		Midterm 1	Polar Coordinate System and Some Interesting Parametric Curves
24-Feb	26-Feb	27-Feb	28-Feb
14.1-14.2 (Partial Derivatives)	3 (Tangent Plane and Local Linearity)	Practice Problems	14.4 (Gradients and Directional Derivatives)
2-Mar	4-Mar	5-Mar	6-Mar
14.5 (Three dimensional Gradient and Tangent Plane)	Practice Problems	Lab 4 (Gradient Vector, Tangent Plane, and Directional Derivative)	14.6 (Chain Rule)
		- Mar 22	
		g Break	
23-Mar	25-Mar	26-Mar	27-Mar
Practice Problems	Quiz 2	15.1 (Local Optimization)	Taylor Approximation and Second Derivative Test
30-Mar	1-Apr	2-Apr	3-Apr
15.3 (Constrained Optimization) + Rocket Science	5.2 (Global Optimization)	Lab 5 (Linear Regression - Ordinary Least Square vs Gradient Descent)	16.1-16.2 (Definite Integral of Functions of Two Variables)
6-Apr	8-Apr	9-Apr	10-Apr
1 16 7-16 3 (Type I/II regions Triple T	4 (Double Integral in Polar linates) + Normal Probability Distribution	Lab 6 (Volume Integration)	Polar Volume Integration (Cylindrical Coordinates)
13-Apr	15-Apr	16-Apr	17-Apr
Practice Problems	Review	Midterm 2	17.3 (Vector Fields)
20-Apr	22-Apr	23-Apr	24-Apr
1 1/4 (Flow of a Vector Fleid)	.1-18.2 (Line Intergrals on Parameterized Curves)	Practice Problems	18.3 (Gradient Fields - Path- Independent)
1-Apr	29-Apr	30-Apr	1-May
18.4 (Path-dependent fields, Circulation, Curl)	(Path-Dependent Fields and Green's Theorem)	Practice Problems	Applications and Generalizations of Green's Theorem
4-May	6-May		
Practice Problems	Review	Reading Period	Reading Period