

Period	Name	
Precalc 2 Unit 5 STUDY GUIDE RUBRIC Conics, Parametrics and Vectors		OK by
Grade Each Topic out of 4		
4- MASTERY Includes All Vocab and Visuals addressed in the topic, An Example, An ORIGINAL example (solved), and a clear understanding of the main idea. It can teach someone else how to do it all		
3- PROFICIENT Includes Most Vocab and Visuals for the topic, an example or an original example clearly and correctly solved. Expresses some understanding of the main idea		
2- BASIC- Includes vocab or visual. Includes example. Shows a basic understanding of the main idea of the topic		
1- BELOW BASIC- Work demonstrated but shows little clarity or understanding of the topic		
Act 26	How is a parabola defined as a conic section? How do you find the standard form of a parabola. How do you find the focus, directrix and axis of symmetry of a parabola and use them to graph?	/4
Act 27-1	How is an ellipse defined as a conic section? What is the equation of an ellipse and how do you graph one? What is the connection between the formula for an ellipse and a circle?	/4
Act 27-2 27-3	How is a hyperbola defined as a conic section? What is the equation of a hyperbola and how do you graph one? What is a real life application of hyperbolas?	/4
Act 28	What does the polar grid look like and how do you plot points on it? How do you convert between polar and rectangular coordinates?	/4
Act 29	How do you convert between polar and rectangular functions? What are the common polar curves and what are their characteristics?	/4
Act 30	What is a parametric equation? How do you graph parametric equations? How do you convert between parametric and rectangular equations?	/4
Act 31	How are parametric equations used to model real life scenarios? Include an example of how parametrics are used to represent projectile motion.	/4
Act 32-1	What is a vector? How is it written and what does it look like?	/4
Act 32-2 32-3	How do you add/subtract vectors? Multiply a vector by a scalar? How do you find magnitude and direction of a vector? How do you break a vector into its directional components?	/4
Act 32-4	How are complex numbers represented as vectors? What are modulus and argument? How do you find the conjugate of a complex number? How do you add, subtract, multiply and divide complex numbers?	/4
Act 32-5	How do you represent complex numbers in polar form?	/4
Act 33	What is rectilinear motion and how are vectors applied?	/4
	Subtotal	/48
	Adjusted Total = Total /48*40	/40