Honors Precalculus

Laws of Trig, Vectors, & Polar Intro Unit

Day	Topic	Assignment	Presented Problems	Presenters
1	6.1 Proving the Law of Sines and Basic Examples	Pg 410 7, 8, 9, 10, 41, 46 (see diagram in posted answers for 46)	41, 46	
2	6.1 Ambiguous Cases and Areas of Oblique Triangles using Law of Sines	Pg 410 31, 35, 25, 29, 43, 45 (see diagram in posted answers for 45)	31, 43	
3	6.2 Proving Law of Cosines and Basic Examples	Pg 417 7, 11, 31, 32, 49	7, 49	
4	6.2 Proving Heron's Formula and Applications of Law of Cosines	Pg 417 39, 41, 47, 53 (hint: the angles at the base of the triangle are 6^{o} above and below 90^{o})	39, 53	
5	**Quiz 6.1-6.2**			
6	6.3 Vector Operations (Ex 1-6)	Pg 429 15, 19, 25-30, 39 (no sketching), 63, 69	39, 63	
7	6.3 Direction Angles, Finding Component Form, and Speed/Direction	Pg 430 75, 77, 81, 83, 89, 97, 99 (hint: the vertical components of the cables totals to the weight and the horizontal components are equal and opposite)	75, 89	
8	9.1 Equation for a Circle - Derive and Apply (no parabolas)	Pg 643 5, 7, 9, 13, 15, 17, (also sketch graphs of 13-17) 41, 42	13, 17	
9	9.2 Equation for an Ellipse - Derive, Apply, and Eccentricity	Pg 653 9-12, 13, 21, 23, 29 (just sketch), 31 (just sketch), 56, 68	21, 31	
10	Intro to Polar Coordinates Investigation (may need 2 days)	Complete Investigation Worksheet		
11	9.5 Graphing Polar Coordinates and Coordinate Conversion	Pg 681 5-8, 9, 11, 13, 15, 21, 25, 35, 39, 41	9, 21	
12	**Quiz 6.3 - 9.5**			
13	Chapters 6 & 9 Practice Test	Finish Practice Test and Study		
14	**Chapters 6 & 9 Test**			