Unit 5 Conic Section Ellipse Task

pre-calculus unit 1 review unit 1 conic sections calculator required i give each equation below a rewrite the equation in standard form show the work that leads to your answer b identify the conic section 22 2 2 2 2 2 2 2 2 2 2 2 2 2 1 9 x 18 y 6 x 9 0 5 4 4 x 16 y 288 y 272 0 2 4 4 y 32 x 5 0 6 y 6 y 8 x 15 0 7 5 ellipses for each ellipse identify the center vertices foci and major and minor axes each unit in the coordinate plane represents 1 foot find the width of the sculpture at a height of 5 feet 5 7 if a conic section has foci at 5 1 and 1 1 determine its center b geometry quarter 4 unit 1 algebraic representations of conic sections overview number of instructional days 22 1 day 45 minutes content to be learned mathematical practices to be integrated construct the inscribed and circumscribed circles of a triangle prove properties of angles for a quadrilateral inscribed in a circle unit 5 conic sections notesheets lesson 33 parabolas lesson 34 circles lesson 35 ellipse lesson 36 hyperbola lesson 37 general form of a conic section lesson 38 ellipse lesson 36 hyperbola lesson 37 general form of a conic section powerful create your own unique website with customizable templates get started unit 6 conic sections parametric equations and polar coordinates unit 7 sequences amp series binomial theorem and limits conic sections parametric equations and polar coordinates this unit covers the topics 1 graphs of the conic sections circle ellipse hyperbola parabola create your own unique website with customizable templates get started unit 6 conic sections page 5 of 18 precalculus graphical numerical algebraic pearson chapter 6 syllabus objectives 2 1 the student will graph relations or functions including real-world applications ellipses ellipse the foci of points where the sum of the distances to two fixed points is constant conic sections unit plan unit goal the students will gain understanding of conic sections as dynamic objects on paper in 3 dimensional space and in nature the goal now is to use a different flashlight to fill up the conic sections of the hyperbola and ellipse that were previously drawn also they will try to make their light hit the 5 from the conic sections 2 from the parametric unit 3 pre req packet no notes but yes to calculator this performance task starts now and is expected to be completed by the end of class on april 1st by the end of the day by 3pm use a cone and a thin rectangular prism to create a conic slice modeling an ellipse cone must unit 6 lesson 1 an introduction to conics notebook unit 6 introduction to conic sections leq what is a conic section and how do you represent one a conic section is a curve formed by the intersection of a plane and a double cone are degenerate conic sections because they are simpler than the other conic sections there are four important types of conic sections circle ellipse hyperbola parabola a circle is a conic section formed when a plane intersects only one nappe perpendicular to the axis an ellipse is a conic section formed when a plane intersects only 0 0 5 ellipses sprinkler day 9 0 6 ellipses powerpoint notes day 4 ellipses notes ppt hw assignment 4 ellipse assignment 4 ellipses odd answers 9 0 7 hyperbola patty paper task 9 10 project assigned project received project conics project due on or before september 21 students will have an opportunity to work on unit eight precalculus practice test conic sections page 5 of 5 27 solve for y write your answer in simplest form x xy y x y 223 4 5 10 20 0 28 find the values of a b and c then identify the type of conic 16 5 39 x 1 29 find a polar equation for an ellipse with a focus at the pole and major axis endpoints 3 0 and 1 5 30 this conic sections the ellipse lesson plan is suitable for 10th 11th grade students investigate properties of conics in this algebra instructional activity students graph conics and identify the center and vertex math c30 conic sections unit test formulas circle ellipse parabola hyperbola part 1 multiple choice a circle and a hyperbola can have a maximum of intersections what others are saying in this activity students can practice the vocabulary of conic sections while precalculus algebra 2 trigonometry conic sections sort and match activity task cards in this activity your precalculus algebra 2 or trigonometry students can practice the vocabulary of conic sections while investigating similarities and differences in the properties of parabolas station 2 i can graph the conic sections station 3 i can identify the key features of a conic section station 4 i can write an equation of the conic section given key features day 19 homework finish review stations solutions fri oct 23 review learning targets by stations station 1 i can identify the conic section station 2 i can determine its center 8 geometry quarter 4 unit 4 1 algebraic representations of conic sections overview number of instructional days 22 1 day 45 minutes content to be learned mathematical practices to be 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conic sections are formed by the intersection of a plane and a double-napped right circular cone. The other conic sections—circles, ellipses, and hyperbolas—will be studied in later activities in this unit. Unit 5 rational functions and conic sections this unit covers rational functions all new except the parent graph it may also contain conic sections depending upon the school calendar. ©a x2 0n1w6l fkzufxkay jsroefztwwdapriet flelwcv o x iaylidwlelq frbirgfhetnsi orleasbe rlvgerdp k s ymnaidmei mwbiptfhwitw11 naitael bailfgvegb rbar y2y, unit 4 prob and stat unit 5 exponents and radicals unit 6 quadratics and polynomials unit 7 sequences and series unit 8 rational functions and conic sections depending upon the school calendar.

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