

**Parabolas ellipses and hyperbolas worksheet**

**I'm not robot!**

Distance formula Finding equations of circles in standard form Graphing circles Using completing the square to write an equation for a circle The parabola  $[(x-h)]^2=4p(y-k)$  and  $[(y-k)]^2=4p(x-h)$  Vertex, focus, directrix, axis of symmetry, focal width Graphing parabolas Find an equation in standard form for the parabola that satisfies given conditions Application involving equations of parabolas Ellipses with center at (0, 0) Use the center, vertices, foci, semi major and minor axes,Page 2These math mats make a super fun and easy math center. Just add play-doh! Included in this pack are: Number Mats (0-20) - Students can create the number, then fill in the ten frames to match. Shape Mats (circle, oval, triangle, square, rectangle, trapezoid, rhombus, pentagon, hexagon, octagon, moon, heart, star) - Students can create the shape, keywords: playdough, play-doh, play-doh,Page 3This is a 10-question, multiple choice quiz on L.8.2a Use punctuation (comma, ellipsis, dash) to indicate a pause or break. This quiz is similar to ACT practice quizzes I've made, and it practices the skills required, but I technically focused more on WHETHER or not a pause was required rather than EXACT pause punctuation. That's because, even English teachers have trouble telling between double-dashes or double-commas, or where an ellipsis might fit better than a dash. Because I was using a tPage 4With this activity, students will find the center, vertices, co-vertices, foci, and length of major/minor axes of given equations of ellipses. Then, they will color their answers as directed to reveal a beautiful, colorful mandala! As an added bonus, the final products make fabulous classroom decor!This activity is an excellent resource for sub plans, enrichment/reinforcement, early finishers, and extra practice with some fun. It is especially useful for end-of-year practice, spiral review, andPage 5This product has students solve 12 problems dealing with ellipses. These can be used as stations, group work, or individual work to complete either in the classroom or at home.These problems focus on ellipses as conics with:foci,vertices,co-vertices,minor & major axes,semi-major &semi-minor axes,eccentricity,equations with center (0,0), &equations with center (h,k).A detailed step-by-step teacher key is provided upon purchase as well as a paper saver version. The paper saver vPage 6This is a fun digital matching and puzzle assembling activity on determining the foci of an ellipse. On the first slide there are given a total of 12 equations numbered with 1a,2a,3a,4a,1b,2b,3b,4b,1c,2c,3c, and 4c. The first 6 are ellipses with center the origin and the next 6 are ellipses not centered at the origin. On the second slide the answers of the problems are given in random order. Students have to type the number of each problem next to its answer in the empty box provided (matching)Page 7With this no-prep activity, students will match equations of ellipses using the given information (vertices, co-vertices, minor/major axis endpoints, center, width, and/or foci). Then, they will find their answer on the abstract picture and fill in the space with a given pattern to reveal a beautiful, fun Zen design! Students can color their final products or leave them in black and white. Either way, your classroom will be decorated with beautiful artwork as the students practice their Algebra 2 skills!Page 8These scaffolded notes have students take notes via fill in the blank, work together as a class to solve problems, and solve problems individually. They cover ellipses as conics with:definition of ellipses,foci,vertices,co-vertices,minor & major axes,semi-major &semi-minor axes,eccentricity,equations with center (0,0), & equations with center (h,k).There are 16 problems for the class and students to solve from basic to word problems.A detailed step-by-step teacher key is providedPage 9This 18- question (22-part), auto-grading, digital assignment uses Google Forms to provide students with practice working with equations and graphs of ellipses. Students will:Write an equation for an ellipse, given: the center(0,0), vertex, + co-vertexFind the foci and sketch the graph, given an equationWrite an equation for an ellipse, given the graphFind the distance between the foci of an ellipse given the length of the major and minor axesWrite an equation for an ellipse, given the foci andPage 10This 10-page document contains all vocabulary terms about circles and ellipses introduced in elementary and middle school. Material has been used in a mini-course as well as a summer school enrichment course. There are 17 terms, including arcs, major arcs, minor arcs, intercepted arcs, central angles, inscribed angles, as well as semi-circles, concentric circles, circumscribed and inscribed circles. Each term has its definition and drawing, and where appropriate symbol and formula. By Math FaPage 11Algebra 2 - Ellipsesby This is one of my credit recovery lessons for Algebra 2. These were created when I worked at a credit recovery high school where students could take both semesters of the class in only one semester. Please make sure that you have the appropriate SmartBoard notebook software before purchasing. If you do not, you can download it from Smart Technologies. Lesson 4 - Ellipses is a lesson for Algebra 2. This lesson covers how to graph an ellipse. In this bundle, you get the SmartBoard notes for the included is a worksheet, answer key and bellwork on solving systems of equations with lines, circles, parabolas, ellipses, and hyperbolas. It begins with a review of linear systems and progresses. Students graph the systems on the front as well as solving algebraically and only solve the ones on the back by hand.Ellipsis, Ellipses usage lessonby This is a grammar and/or usage lesson. It will include a document that you should copy to an overhead transparency. If you have access to better equipment, you can project the document from your computer. If you don't even have an overhead projector, you can simply make a class set of the master document. Feel free to change anything you want about my lessons. You bought it; it's yours now. This Unit includes: Ø Overhead transparency master for class activity/explanation. This is a lengthQuick Check: Ellipse Graphingby Conic Sections: Graphing Ellipses In this assignment the students will: Identify Conic Sections from Equations Graph Ellipses For MORE CONIC SECTIONS fun, try: Matching Parabola Graphs and Graphing Practice Quick Check Parabola Graphing Quick Check Hyperbola Graphing Graphing Conic Sections Bookletvideo: HPC: CU 10 & 11: 8.2 Day 1: Ellipsesby - Ellipses with center at (0, 0) - Use the center, vertices, foci, semi major and minor axes, and its Pythagorean relation to graph ellipses - Find an equation in standard form for the ellipse that satisfies the given conditions - Application involving ellipsesvideo: HPC: CU 10 & 11: 8.2 Day 2: Ellipsesby - Ellipses with center at (h, k) - Use the center, vertices, foci, semi major and minor axes, and its Pythagorean relation to graph ellipses - Find an equation in standard form for the ellipse that satisfies the given conditionsOnline Flashcards on Solar System: to implement: Paste above link into any LMS, Google Classroom, Google Docs, study guide etc, and your done! Feel free to share the link above for free!If you are using the product in class, please support us with a purchase!!If you are interested in word walls of these flashcards, we have them in packages here: Sections Ellipsesby Supplement practice exercises for conics : ellipsesNOTE: Pleasea, feel free to give us a rating with a feedback;b, feel free to browse SAWMTC for more worksheets/clement exercises that might be useful in your class.Thank you very much for your support.Subjects:student; HPC: CU 10 & 11: 8.2 Day 2: Ellipsesby - Ellipses with center at (h, k) - Use the center, vertices, foci, semi major and minor axes, and its Pythagorean relation to graph ellipses - Find an equation in standard form for the ellipse that satisfies the given conditions - Application involving ellipsesGSP Animated Parabola and Ellipseby Just something fun to throw on the SMART Board to show your students. You could use it to explore tangent lines and how they combine to create parabolas or ellipses.ØPage 12Circles, Ellipses, and Hyperbolasby In this worksheet, students will write the standard-form equations of nine conic sections given their graphs. The graphs of circles, ellipses, and hyperbolas are all mixed within the same set of problems, so that students must be careful not to confuse the different forms with each other as they work. This feature makes this worksheet particularly well-suited for a practice activity after students have learned about each of the three featured conics individually. An answer key is included with tConics Ellipses DIGITAL EXIT TICKET FREEby Teaching from home? Need a quick formative assessment to check your students' understanding of Ellipses from your Conic Sections unit? Try this 5-question, self-grading Google Form Exit Ticket. Ideal for distance learning.The google form is ready to go - no prep needed. The questions will be graded for you and you have the option to allow your students to get instant feedback.You will need to have a Google account to access the Google form and see your students' results. Google accounts are freeEllipsis Sentence Strip Manipulatives (FREEBIE)by Give your students hands-on practice using ellipses with this engaging activity! Pairs of students work together to put their cut-out sentence in order and determine where to add an ellipsis (or two)!Sentences are of varying levels of difficulty, making it easy to differentiate!Requires quite a bit of cutting, but if you laminate them, to save for future years, it is worth it!Subjects:Grades:Conic Section: Ellipse Lesson Planby Materials Included: 1) SMART Notebook file 2) Foldable - Conic Section Formulas 3) Notes: Ellipse Examples (Foldable made for interactive notebook) 4) 2 website built into SMART notebook that shows students how ellipses are used in the medical field and the other website shows how an ellipse can be made with 2 foci. Students will be able to graph equations of ellipses and be able to identify all major parts/properties of the ellipse. In the SMART notebook, click to reveal all the formulas atConic Sections- Hyperbola and Ellipseby We used this worksheet as an enrichment material for geometry kids. They had just learned about the four conic sections with hyperbolas and ellipses centered at the origin. So they got to extend their knowledge by graphing hyperbolas and ellipses not centered at the origin and completing the square with hyperbola and ellipses.ØPage 13Circles, Ellipses, and Hyperbolasby This is a hands-on activity that leads students through constricting and deriving the formulas for circles and ellipses. It is intended to help students develop an intuitive understanding of the equations related to circles and ellipses. It should take roughly 1 class period.Supplies Needed:Bronze FastenersStringRulersPaperScissorsThis free PowerPoint document contains the graphs of 10 ellipses that you can cut and paste and resize for use in your tests, quizzes, homework, or other classroom purpose. Not for commercial use. All of the graphs are centered at (0, 0) and have a vertical major axis. Length of the major axis ranges from 12 to 20.This PowerPoint document contains the graphs of 10 ellipses that you can cut and paste and resize for use in your tests, quizzes, homework, or other classroom purpose. Not for commercial use. All of the graphs are centered at (0, 0) and have a vertical major axis. Length of the major axis ranges from 2 to 10.Conic Systems Practiceby Parabolas, Circles, Ellipses and Hyperbolas - 9 conic systems practice worksheet with answer key! For the days when Precalculus or Algebra 2 students just need to do more practice with this concept. I would use this worksheet and take kids outside to choose a few problems to solve with sidewalk chalk! Have them take a picture of their work and send it to you for accountability. Very fun!Page 13Topic List:Circle Formula, Ellipses and Conics, Inverse Variation, Arcs and Angles, Segment Measure, Circle Proofs, Unit Circle, Special Reference Co-terminal Angles, Reciprocal Trig Functions, Law Of Cosines, Forces and Vectors, Pythagorean Identities, Half and Double Angle Formula, Compound Interest, Growth and Decay, Log Functions, Binomial Expansion, Inverse Trig Functions, Law of Sines, Ambiguous Case, Law of Cosines, Sum and Difference FormulaAll lessons inPage 152-D Shapes Include:parallelogram, trapezoid, diamond, heart, crescent, rectangle, square, hexagon, oval/ellipse, star, triangle, pentagon, octagon, circle3-D Shapes include:Cube, rectangular prism, triangular prism, cylinder, cone, & pyramid-Self-grading & Super Fun-Play on Smartboards, Chromebooks, tablets, & computers-36 Interactive Cards to practice identifying basic 2-Dimensional and 3-Dimensional shapesPreview the first 4 cards for free here.New to Boom Learning? Check out thisPage 16Geometric Shapes Matching Cards - This material includes the following shapes: circle, triangle, square, oval, ellipse, pentagon, parallelogram, trapezium, kite, octagon, rhombus, five-pointed star, heart, crescent, semi-circle, chevron, and hexagon.Includes:18 geometric shapes18 geometric name cards18 geometric definition cards1 colored control chart1 black and white control chart1 black and white chart with the shape, the name, and a blank space for the child to draw the shapeCards are approx.Page 17A printable material for learning 13 polygons: triangle, quadrilateral, pentagon, hexagon, heptagon, octagon, nonagon, decagon, circle, ellipse and oval. Comes in 3 part cards and definition cards which you can assemble into a booklet.Page 18This file contains flashcards and activities about various two-dimensional shapes.Shapes included are: triangle, circle, oval/ellipse (with options for the name), square, rectangle, pentagon, hexagon, octagon, parallelogram, rhombus, and trapezoid. (There is a little introduction to the trapezium as well.)Flashcards can be used as matching cards or for memory games, and a list of ideas for the flashcards is included. Types of cards: shamrock shapes (silly!), shapes with names, shapes only. aPage 19This is a 150 page \* Smartboard File of lessons I taught in Algebra II / TrigTopic List: Circle Formula, Ellipses and Conics, Inverse Variation, Arcs and Angles, Segment Measure, Circle Proofs, Unit Circle, Special Reference Co-terminal Angles, Reciprocal Trig Functions, Law Of Cosines, Forces and Vectors, Pythagorean Identities, Half and Double Angle Formula, Compound Interest, Growth and Decay, Log Functions, Binomial Expansion, Inverse Trig Functions, Law of Sines, Ambiguous Case, Law of CosinePage 20These shapes posters are ready to print and hang in your classroom. Includes the following shapes: circle, triangle, square, rectangle, oval/ellipse, diamond/rhombus, star, heart, trapezoid, pentagon, hexagon, octagon, crescent. Note there are different wording options for diamond/rhombus and oval/ellipse. If wall space is limited in your classroom, remember you can always print these in reduced size! I make them large to keep the resolution nice and crisp. \*\*I also offer this as part of thesePage 21Shapes flash cards for kids, geometric shapes for toddlers visual learning in a printable DIGITAL FILES.Shapes includes: Arrow, Circle, Crescent, Cross, Ellipse, Heart, Heptagon, Hexagon, Kite, Nonagon, Octagon, Oval, Parallelogram, Pentagon, Rectangle, Rhombus, Square, Star, Trapezium, and Triangle.Files: High resolution 300 dpi - 20 JPG, 1 PDF & JPG Letter sizes. Sizes: 3.5x4.5 Inches / Letter sizes.Note: This is a digital product no physical product will be shipped, you can only downloadPage 22Area and Perimeter of Plane Figures: rectangle, square, parallelogram, rhombus, triangle, right triangle, trapezoid, pentagon, exagon, octagon, circle, arc and sector, circular crown, ellipse. The zip folder contains: the PDF the editable pptthe Images I've used (png 300 dpi, transparent background; vector images svg; file Illustrator documents)Fonts used (free for commercial use): a Akulliah; Pangolin; Anti Corona /www.dafont.com/a-akulliah.fonthttpPage 23Word Activities: Word Search Puzzle - 4 Difficulty Levels, Word Scramble - 2 Difficulty Levels, Secret Code, Crack the Code. Words: Irony, Simile, Archaism, Oxymoron, Metonymy, Ellipsis, Metaphor, Apostrophe, Euphemism, Periphrasis, Allegory, Antithesis. Answer key included. Table Of Contents: Word Search - Difficulty Level Easy Find all the words hidden in the across and down, with no backwards. Word Search - Difficulty Level Medium Find all the words hidden in the across, down, and diagPage 24Polygons 3-Part Cards (Complex)This work names 13 types of polygons: simple closed figure, polygon, triangle, quadrilateral, pentagon, hexagon, heptagon, octagon, nonagon, decagon, circle, ellipse, and oval. Includes:13 pictures with labels13 pictures without labels13 labeltitle cardCards with label are approx. 3¾" x 4", cards without label are approx. ¾" shorter.You may be interested in: Polygons Book (Complex)Page 25Montessori Learning Nomenclature CardsSeries: Geometric Shapes How many cards? 26 Vocabulary: Quadrilaterals: rectangle, square, trapezoid, rhombus, parallelogram, kite, chevron, quadrilateral. Curved Figures: circle, curvilinear triangle, oval, ellipse, quatrefoil. Triangles: equilateral, right-angled isosceles, acute-angled isosceles, obtuse-angled isosceles, acute angled scalene, right-angled scalene, obtuse-angled scalene. Polygons: pentagon, hexagon, heptagon, octagon, nonagon,Page 26Algebra II vocabulary worksheet. The words are scrambled, so they have to unscramble. Then match the word to it's definition. INCLUDES THESE WORDS: factor, complex number, quadratic, conic section, ellipse, circle, rational expression, logarithm, exponential function, composition, combination, permutation, polynomial, and zeros

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