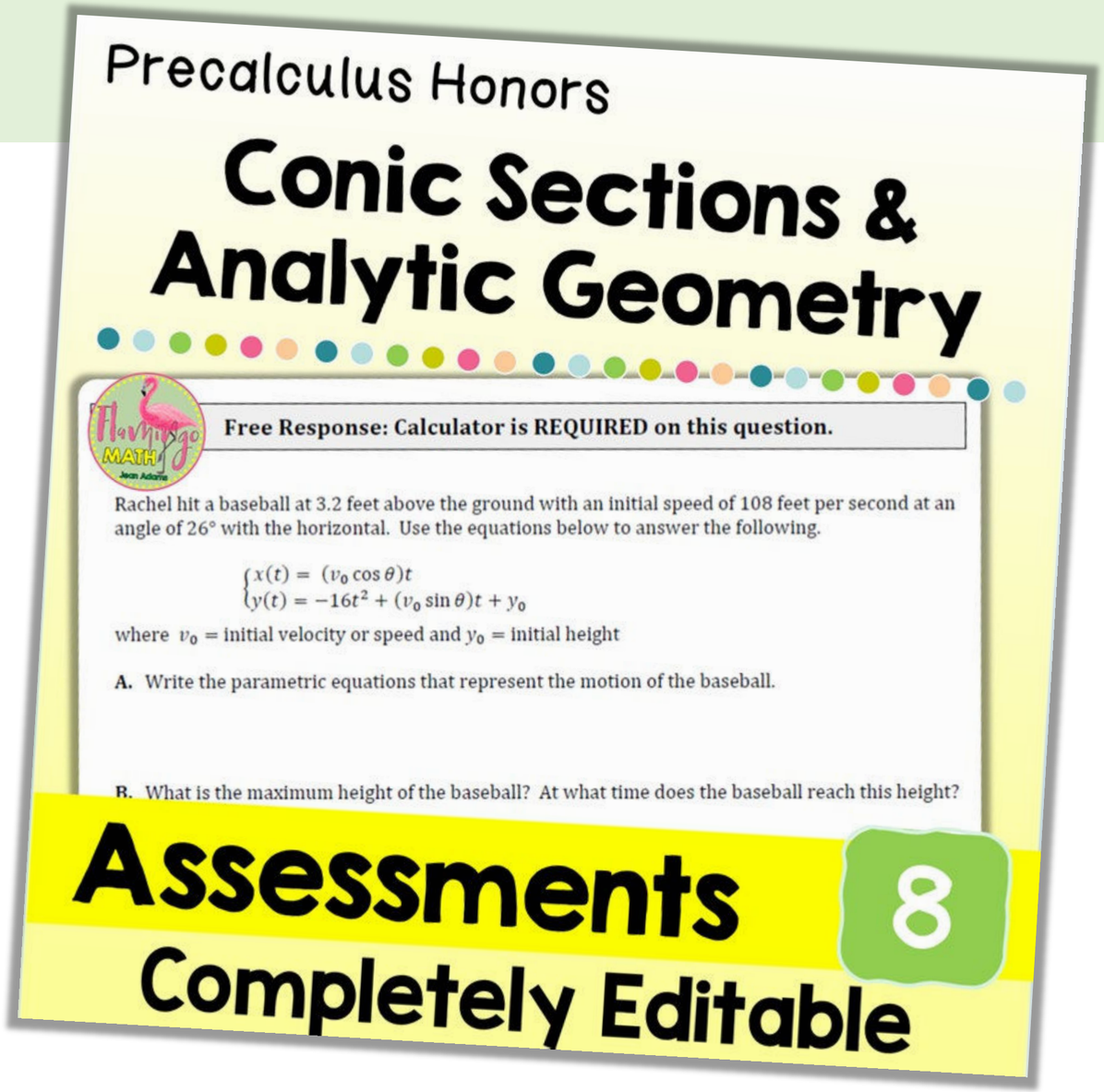
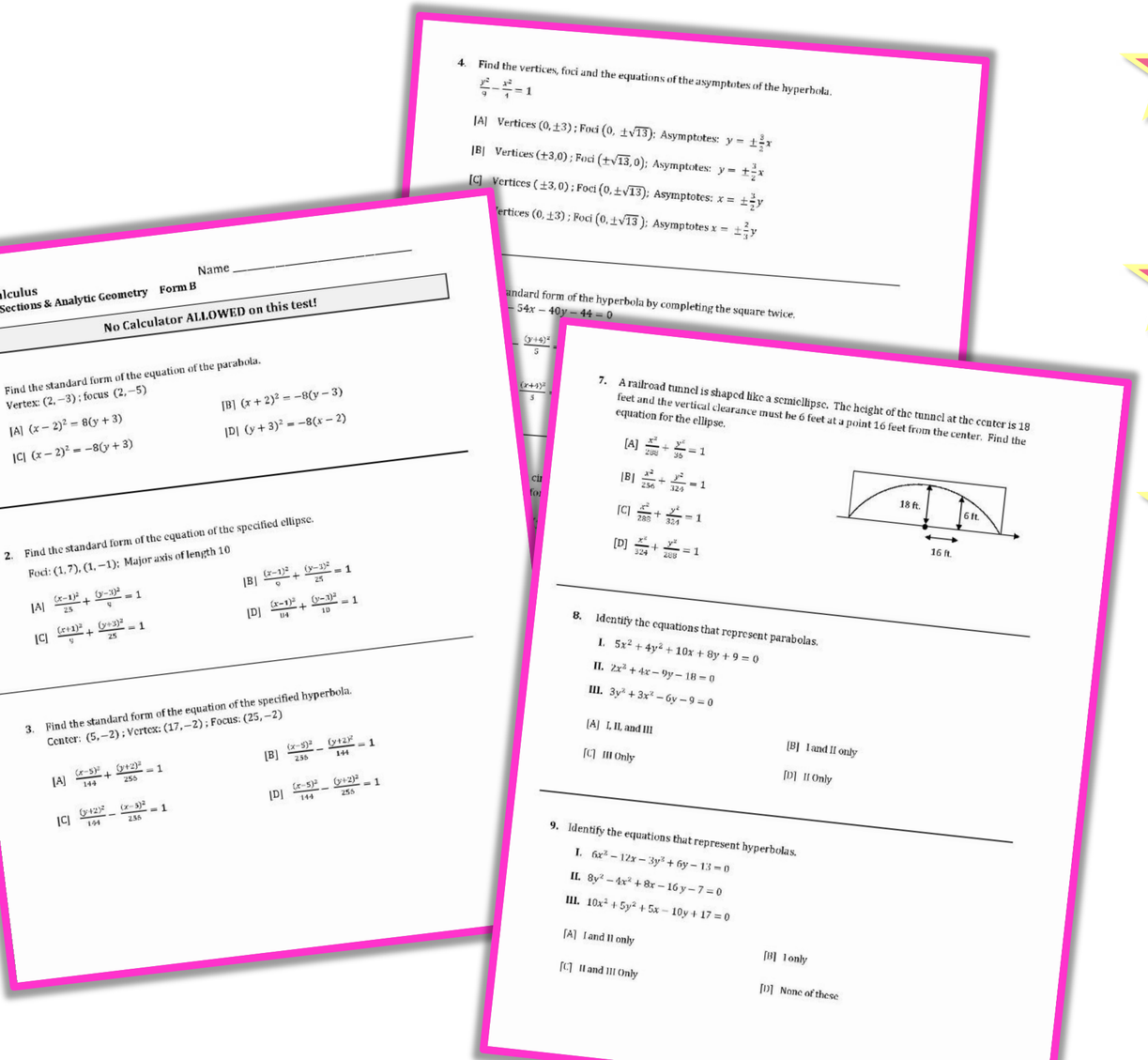
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Name _____

lculus
Sections & Analytic Geometry Form B

No Calculator ALLOWED on this test!

Find the standard form of the equation of the parabola.
Vertex: $(2,-3)$; focus $(2,-5)$

[A] $(x-2)^2 = 8(y+3)$
[B] $(x+2)^2 = -8(y-3)$
[C] $(x-2)^2 = -8(y+3)$
[D] $(y+3)^2 = -8(x-2)$

2. Find the standard form of the equation of the specified ellipse.
Foci: $(1,7), (1,-1)$; Major axis of length 10

[A] $\frac{(x-1)^2}{25} + \frac{(y-3)^2}{9} = 1$
[B] $\frac{(x-1)^2}{9} + \frac{(y-3)^2}{25} = 1$
[C] $\frac{(x+1)^2}{9} + \frac{(y+3)^2}{25} = 1$
[D] $\frac{(x-1)^2}{144} + \frac{(y-3)^2}{10} = 1$

3. Find the standard form of the equation of the specified hyperbola.
Center: $(5,-2)$; Vertex: $(17,-2)$; Focus: $(25,-2)$

[A] $\frac{(x-5)^2}{144} + \frac{(y+2)^2}{255} = 1$
[B] $\frac{(x-5)^2}{255} - \frac{(y+2)^2}{144} = 1$
[C] $\frac{(y+2)^2}{144} - \frac{(x-5)^2}{255} = 1$
[D] $\frac{(x-5)^2}{144} - \frac{(y+2)^2}{255} = 1$

4. Find the vertices, foci and the equations of the asymptotes of the hyperbola.
$\frac{y^2}{9} - \frac{x^2}{4} = 1$

[A] Vertices $(0,\pm3)$; Foci $(0, \pm\sqrt{13})$; Asymptotes: $y = \pm\frac{3}{2}x$
[B] Vertices $(\pm3,0)$; Foci $(\pm\sqrt{13},0)$; Asymptotes: $y = \pm\frac{3}{2}x$
[C] Vertices $(\pm3,0)$; Foci $(0,\pm\sqrt{13})$; Asymptotes: $x = \pm\frac{3}{2}y$
[D] Vertices $(0,\pm3)$; Foci $(0,\pm\sqrt{13})$; Asymptotes $x = \pm\frac{2}{3}y$

andard form of the hyperbola by completing the square twice.
$- 54x - 40y - 44 = 0$

7. A railroad tunnel is shaped like a semiellipse. The height of the tunnel at the center is 18 feet and the vertical clearance must be 6 feet at a point 16 feet from the center. Find the equation for the ellipse.

[A] $\frac{x^2}{288} + \frac{y^2}{36} = 1$
[B] $\frac{x^2}{256} + \frac{y^2}{324} = 1$
[C] $\frac{x^2}{288} + \frac{y^2}{324} = 1$
[D] $\frac{x^2}{324} + \frac{y^2}{288} = 1$

8. Identify the equations that represent parabolas.

I. $5x^2 + 4y^2 + 10x + 8y + 9 = 0$
II. $2x^2 + 4x - 9y - 18 = 0$
III. $3y^2 + 3x^2 - 6y - 9 = 0$

[A] I, II, and III
[B] I and II only
[C] III Only
[D] II Only

9. Identify the equations that represent hyperbolas.

I. $6x^2 - 12x - 3y^2 + 6y - 13 = 0$
II. $8y^2 - 4x^2 + 8x - 16y - 7 = 0$
III. $10x^2 + 5y^2 + 5x - 10y + 17 = 0$

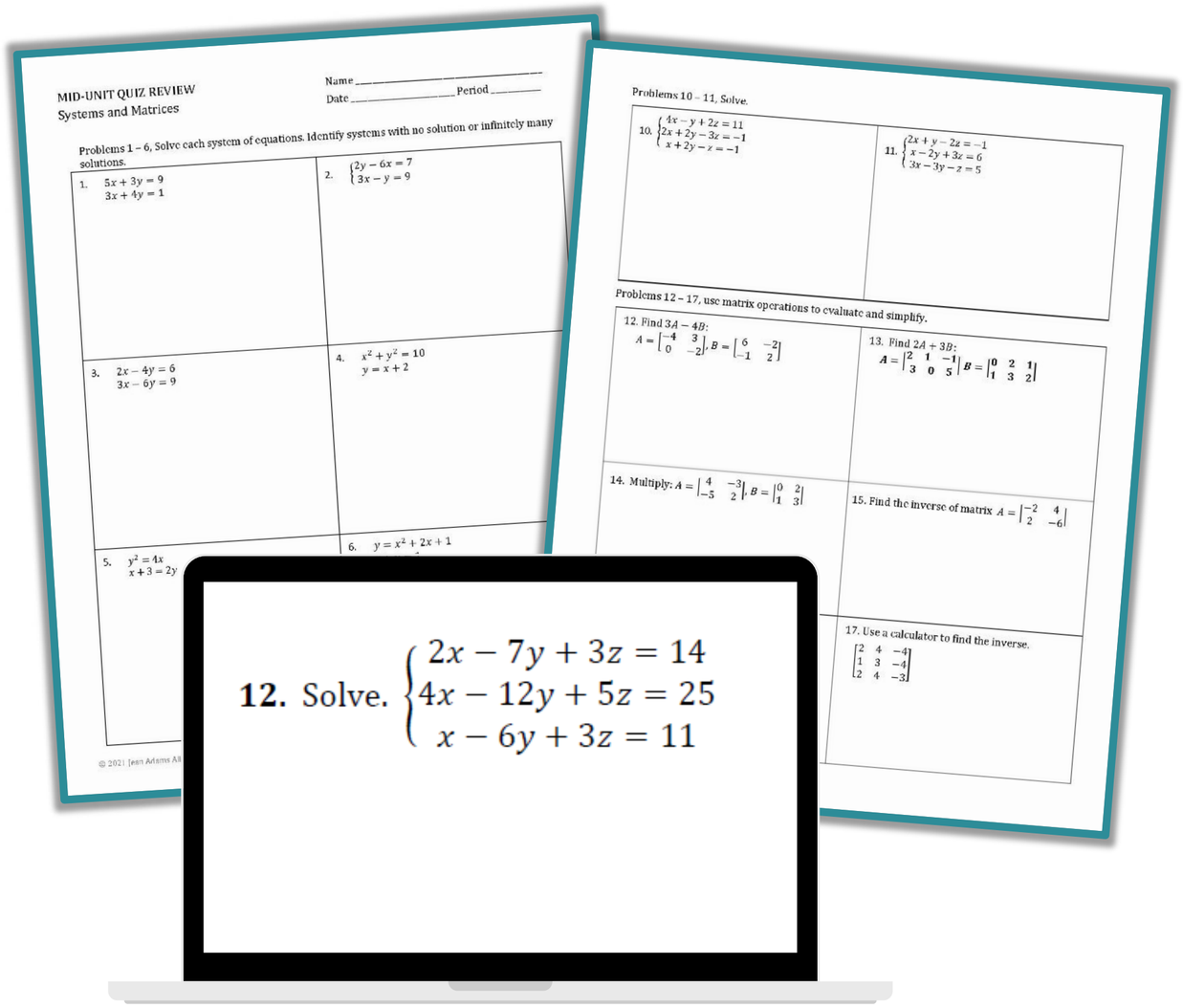
[A] I and II only
[B] I only
[C] II and III Only
[D] None of these

- Where do you find extra time to write rigorous Precalculus assessments?
- Is your class instruction aligned to the course learning objectives and topics?
- You need assessments that will challenge your students to the rigor of Precalculus Honors for success.

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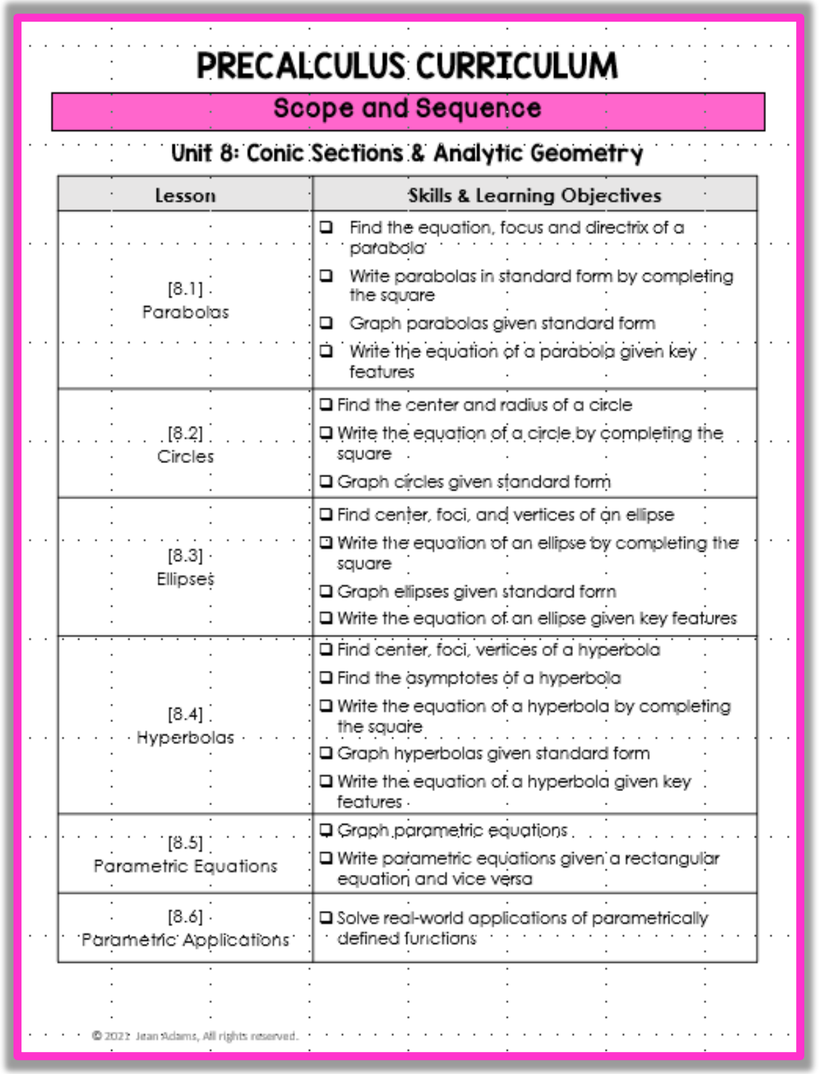
- Editable Review assignments
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- Full solution sets
- Extra Practice Topics
- Scope and Sequence

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Cover the Standards

Each lesson will provide you and your students with the skills and learning objectives necessary for success in the Precalculus Honors Environment.

- ❑ You will find an editable scope and sequence document to track the learning objectives for the unit.
- ❑ Each lesson includes Google Slides for your presentation needs.
- ❑ You will also have a ***fully-editable version*** for every lesson, practice set, daily quiz warm up, and assessment.
- ❑ An editable pacing guide for both learning objectives and lesson plans is provided.



PRECALCULUS CURRICULUM

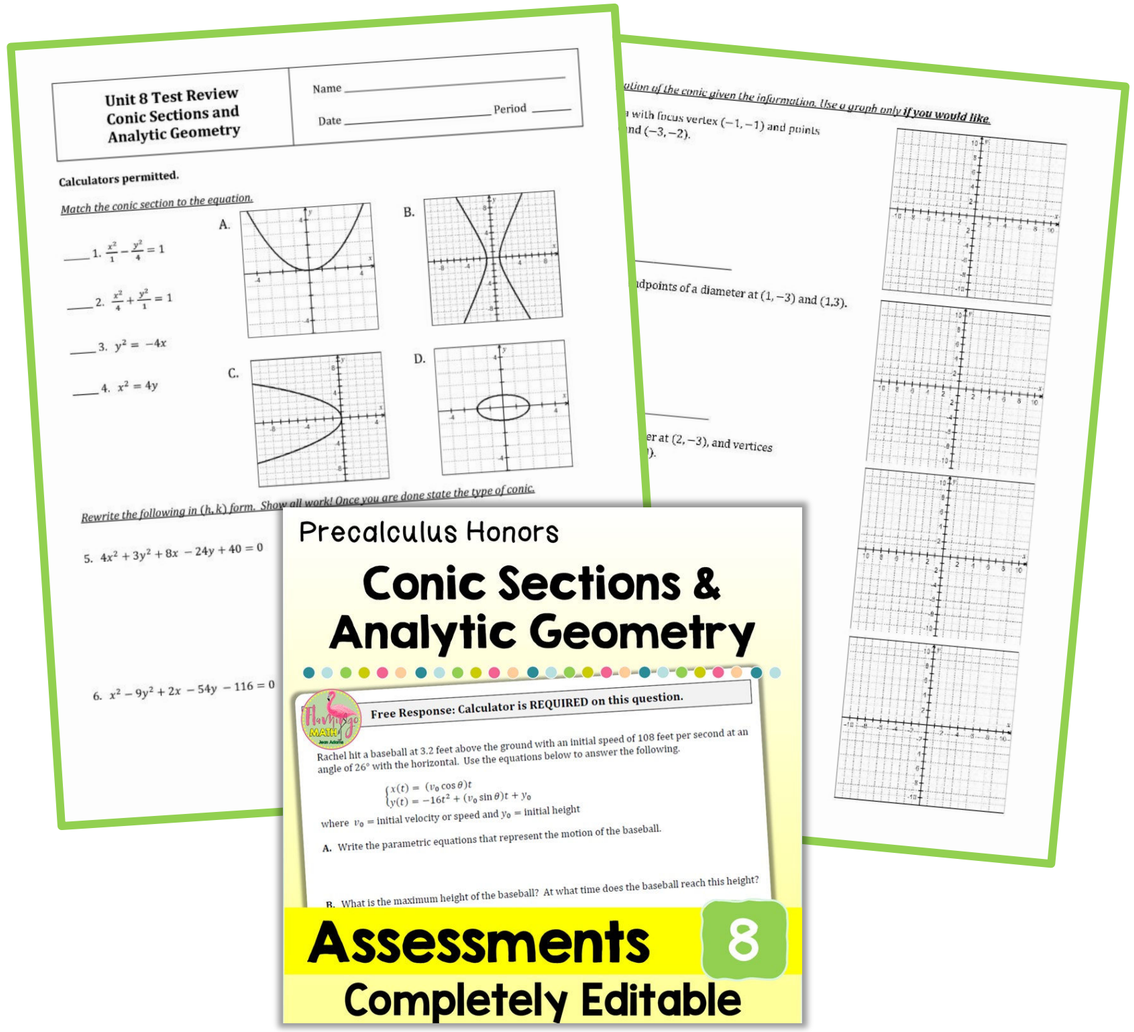
Scope and Sequence

Unit 8: Conic Sections & Analytic Geometry

Lesson	Skills & Learning Objectives
[8.1] Parabolas	❑ Find the equation, focus and directrix of a parabola ❑ Write parabolas in standard form by completing the square ❑ Graph parabolas given standard form ❑ Write the equation of a parabola given key features
[8.2] Circles	❑ Find the center and radius of a circle ❑ Write the equation of a circle by completing the square ❑ Graph circles given standard form
[8.3] Ellipses	❑ Find center, foci, and vertices of an ellipse ❑ Write the equation of an ellipse by completing the square ❑ Graph ellipses given standard form ❑ Write the equation of an ellipse given key features
[8.4] Hyperbolas	❑ Find center, foci, vertices of a hyperbola ❑ Find the asymptotes of a hyperbola ❑ Write the equation of a hyperbola by completing the square ❑ Graph hyperbolas given standard form ❑ Write the equation of a hyperbola given key features
[8.5] Parametric Equations	❑ Graph parametric equations ❑ Write parametric equations given a rectangular equation and vice versa
[8.6] Parametric Applications	❑ Solve real-world applications of parametrically defined functions

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Reviews from Happy Teachers!



> This resource was an excellent addition for my Precalculus Honors students. The mix of free response questions and the multiple choice is exactly what I was looking for. *Roberto F.*

> Great resource for Honors PreCalc kids!! It definitely made them dig deeper into functions, which is what they needed. *Vickie P.*

> Jean has great, thoughtful assessments. Excited to use in Precalculus this year! *Christina N.*

Full Year Curriculum

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> I have the AP Calculus curriculum and it is awesome! I am so excited to use this for my Pre-Calculus classes! I know the students entering AP Calculus will be better prepared because of using this curriculum. Thank you very much! *Alicia B.*

