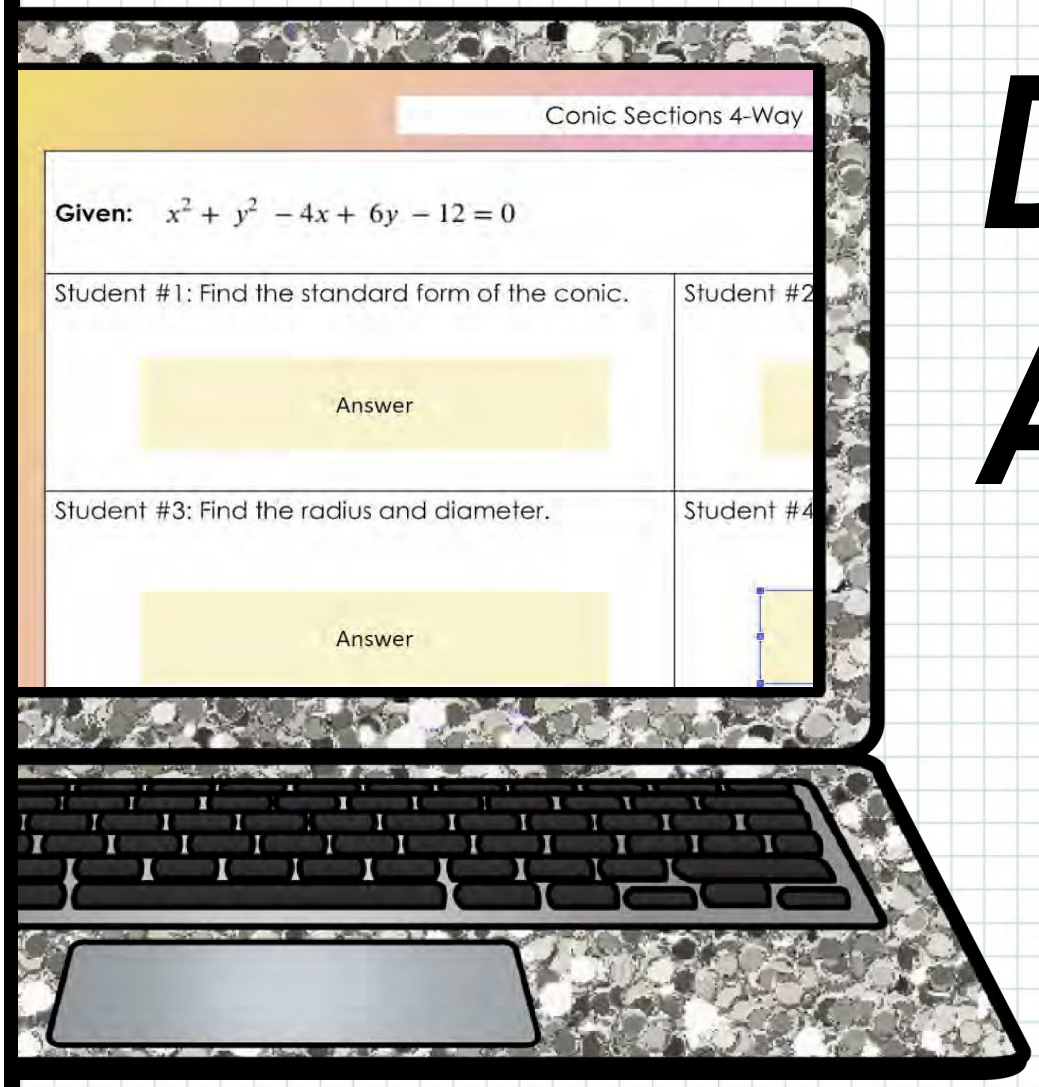
Conic Sections 4-Way



Digital Activity

NO PREP!

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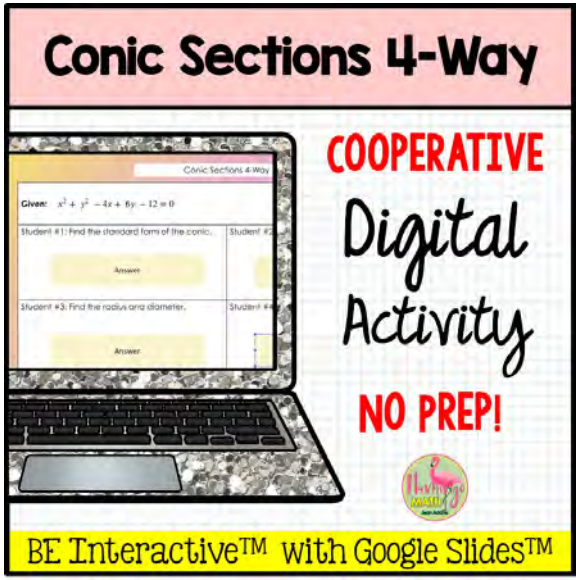
Digital fun for Groups



Conic Sections 4-Way Cooperative Activity with Google Slides™

Your Algebra 2 and PreCalculus students will have 4 questions related to your unit on Conic Sections which can be used as a class assignment, a distance learning activity or as a group assessment.

QUESTION STEMS:

1. Write standard form for a conic section.
2. Find the center.
3. Identify the type of conic.
4. Find major and minor axes.
5. Find the foci of the conic.
6. Identify the directrix.
7. State the focal width of a parabola.
8. Find domain and range for a circle.
9. Find radius and diameter of a circle.
10. Graph the conic section using Desmos.com

NOTE: You and your students must have a free Google account in order to access and interact with the activity. It is not necessary to use Google Classroom to use this resource.

This GOOGLE SLIDES™ Activity has a copyright protected background for fonts and clipart used in the resource. However, the equations for each conic section are EDITABLE and can be changed to create unlimited questions for students.

Conic Sections 4-Way

1.

Given: $16(x-3)^2 + 9(y+2)^2 = 144$

Student #1: Find the standard form of the conic. State the direction of the major axis.

Answer

Student #2: Find the center (h, k) Then identify the type of conic.

Answer

Student #3: Find the major and minor vertices. What is the length of the major axis and the minor axis?

Answer

Student #4: Find the foci of the conic section.

Answer

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Preview

box right.



Paste image of the graph here.

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Conic Sections 4-Way

2.

Given: $25(y+2)^2 - 36(x-3)^2 = 900$

Student #1: Find the standard form of the conic. State the direction of the major axis.	Student #2: Find the center (h, k) Then identify the type of conic.
Answer	Answer
Student #3: Find the major and minor vertices. What is the length of the major axis and the minor axis?	Student #4: Find the foci of the conic section
Answer	Answer

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Preview



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