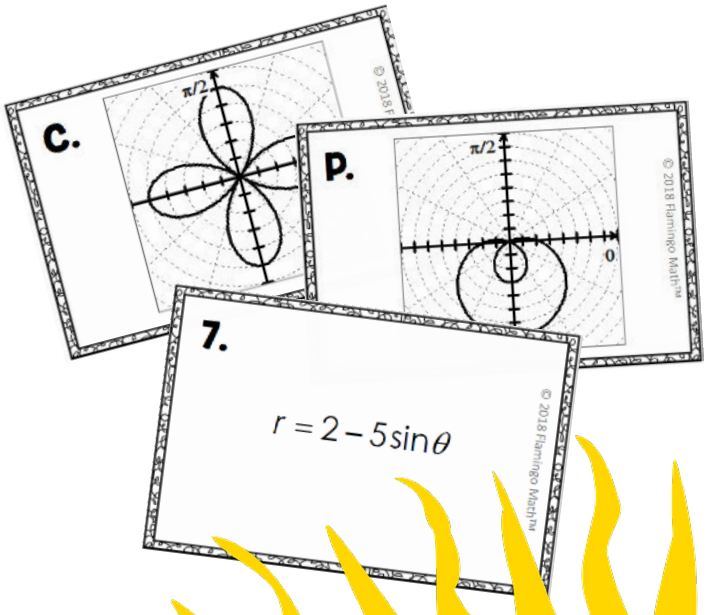
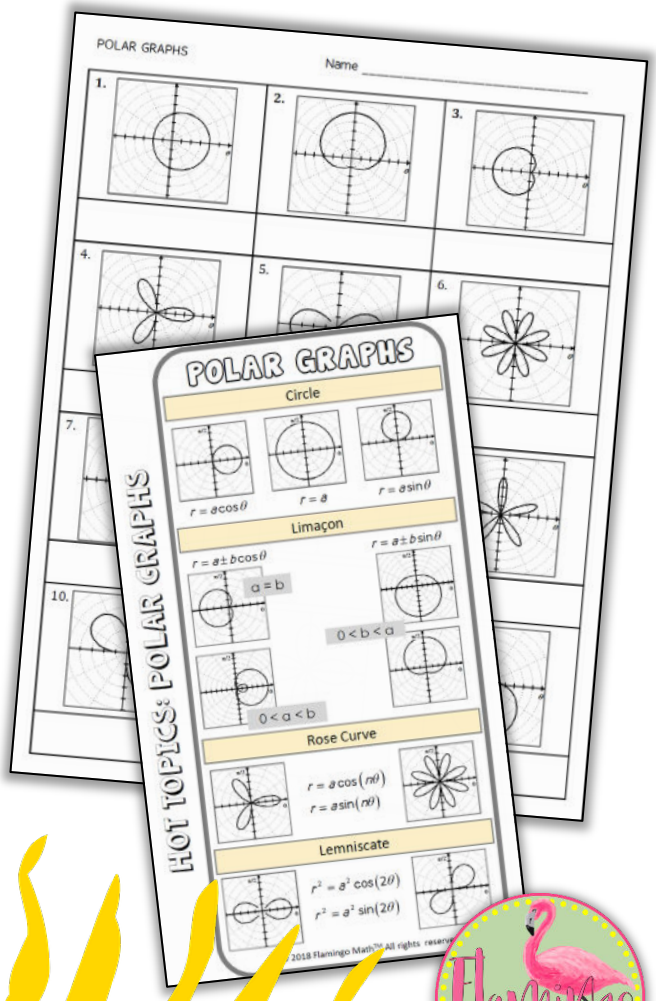
POLAR GRAPHS

- ❑ Task Cards
- ❑ Practice
- ❑ Infographic

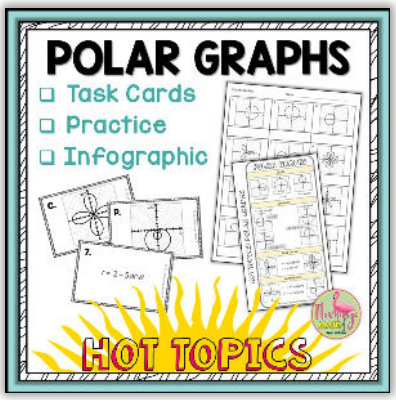




Flamingo MATH
Jean Adams

HOT TOPICS

Polar Graphs Hot Topics



KEY CONCEPTS/TOPICS:

1. Analyze polar graphs properties and characteristics.

GENERAL DIRECTIONS:

Students review polar graphs using task cards to match the equations to the polar curve. There is an infographic for a reference tool.

Product Overview

Polar Graphs Hot Topics

This **HOT TOPIC** is made for your PreCalculus students to gain proficiency in their ability to recognize behavior of polar curves and their respective equations. Also, for your AP Calculus students to review some basic polar graphs prior to motion, area and polar topics in the AP Calculus BC course content.
You will find a **set of practice questions** that can be used as a homework assignment, a set of **TASK CARDS**, and an **INFOGRAPHIC** that students can use as a reference tool. There is a student recording sheet for the matching task card activity and an answer key for all items.

Students will practice the following skills:

☑ Given a polar equation, match the polar curve graph to the equation.
☑ Given a polar curve graph, match the appropriate equation.

Please visit my store for more engaging task card activities.

POLAR GRAPHS Name _____

1. 2. 3.

4. 5. 6.

7. 8. 9.

10. 11. 12.

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C. $r = 3 + 2\sin\theta$

F. $r = 0.75\theta$

I. $r^2 = 16\cos(2\theta)$

L. $r = 3 + \cos\theta$

C. $r = 3 + 2\sin\theta$

F. $r = 0.75\theta$

I. $r^2 = 16\cos(2\theta)$

L. $r = 3 + \cos\theta$

C. $r = 3 + 2\sin\theta$

F. $r = 0.75\theta$

I. $r^2 = 16\cos(2\theta)$

J. $r = 4\sin(5\theta)$ K. $r = 4\cos(2\theta)$ L. $r = 3 + \cos\theta$

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POLAR GRAPHS

HOT TOPICS: POLAR GRAPHS

Circle

$r = a\cos\theta$ $r = a$ $r = a\sin\theta$

Limaçon

$r = a \pm b\cos\theta$ $r = a \pm b\sin\theta$

a = b

0 < b < a

0 < a < b

Rose Curve

$r = a\cos(n\theta)$

$r = a\sin(n\theta)$

Lemniscate

$r^2 = a^2\cos(2\theta)$

Practice Infographic

Task Cards

1. $r = 5\sin(2\theta)$

2. $r^2 = -25\sin(2\theta)$

3. $r = 5 + 2\cos\theta$

4. $r = -5\cos\theta$

8. $r = 3 - 3\sin\theta$

13.

B.

C.

D.

H.

J.

K.

L.

M.

N.

O.

1.	9.
2.	10.
3.	11.
4.	12.
5.	13.
6.	14.
7.	15.
8.	16.

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