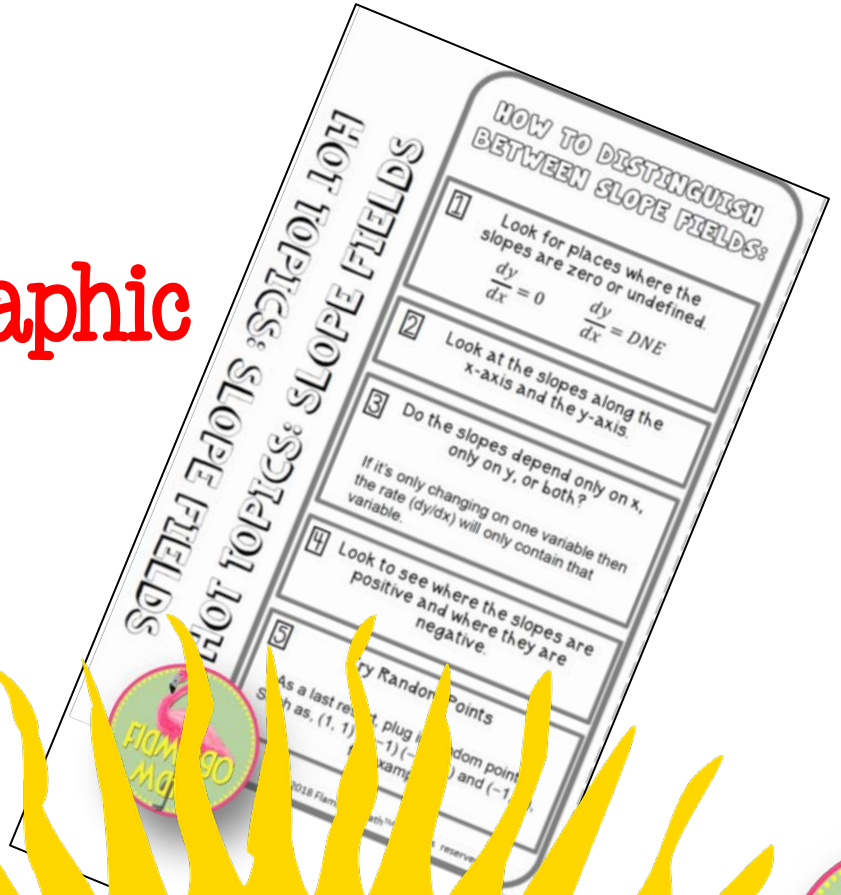
INTRODUCTION to SLOPE FIELDS

Infographic



HOT TOPICS

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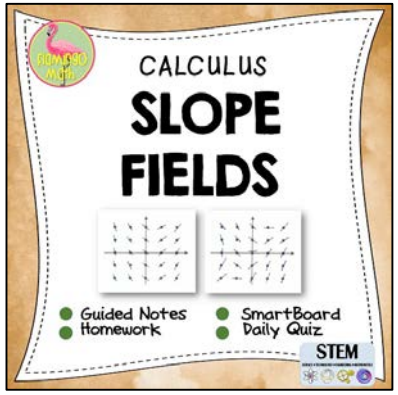
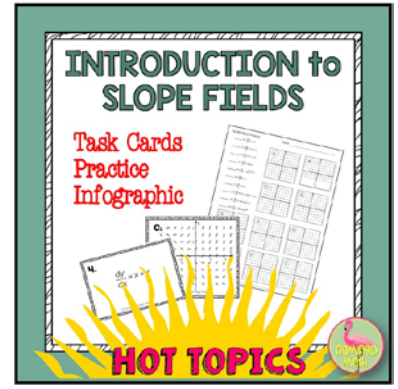
Introduction to Slope Fields is a skill our Calculus students need.

Here is a free HOT TOPICS INFOGRAPHIC:

- Students can use the infographic as a page in their Interactive Notebook.
- Copy on card stock and laminate to be used as a bookmark or reference card while working through your lesson.
- Students can create a collection of HOT TOPICS for review at the end of the course.



Do you need a full lesson on this topic? Be sure to check out my Calculus products:



Read my blog post for:

3 Big Ideas to Introduce Slope Fields

HOT TOPICS: SLOPE FIELDS

HOW TO DISTINGUISH BETWEEN SLOPE FIELDS:

1. Look for places where the slopes are zero or undefined.

$$\frac{dy}{dx} = 0 \qquad \frac{dy}{dx} = DNE$$

2. Look at the slopes along the x-axis and the y-axis.

3. Do the slopes depend only on x, only on y, or both?

If it's only changing on one variable then the rate (dy/dx) will only contain that variable.

4. Look to see where the slopes are positive and where they are negative.

5. Try Random Points

As a last resort, plug in random points. Such as, (1, 1) (1,−1) (−1, −1) and (−1, 1), for example.

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Directions: There are two HOT TOPICS per page. Print the HOT TOPIC on paper or card stock. Then, cut each one out individually. These can be used as a laminated bookmark, or as a notebook foldable.

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