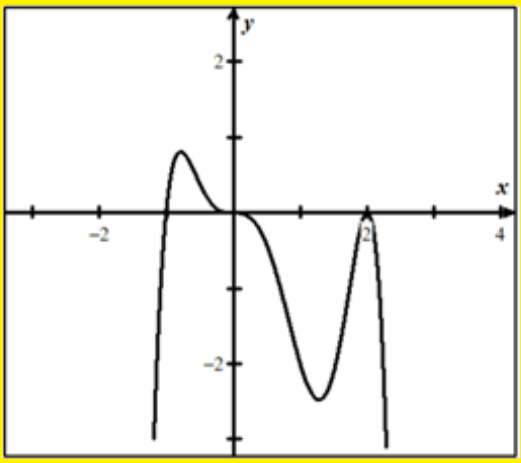
AP® Precalculus

End Behavior

G6



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B3

$\lim_{x \to -\infty} f(x) = -\infty$

$\lim_{x \to \infty} f(x) = -\infty$

Zeros:
$\{-1, 0, 2\}$

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D6

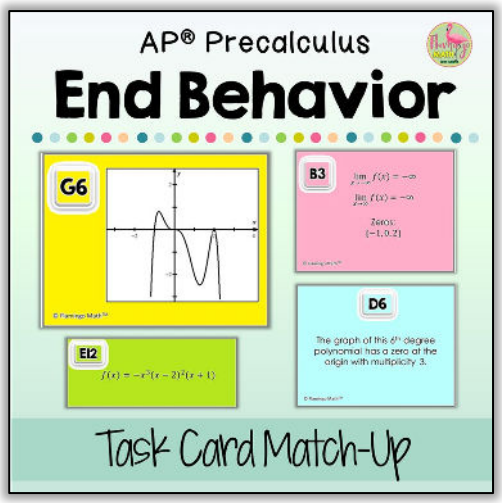
The graph of this 6th degree polynomial has a zero at the origin with multiplicity 3.

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EI2

$f(x) = -x^3(x-2)^2(x+1)$

Task Card Match-Up



End BehaviorBehavior Match-Up Activity

Your AP Precalculus students will be actively involved in this Sort and Match task card activity covering topics related to the end-behavior of polynomial and rational functions.

About the Activity:

The **Polynomial & Rational Functions End-Behavior Match-Up Activity** is made for your AP Precalculus students to gain proficiency in their ability to understand the behaviors of a function, properties and end-behaviors. You will find a **set of 12 Function Graph Cards**, **Equation cards, description cards and behavior cards,** plus a student recording sheet. There is an answer key included for the activity.

Students will practice the following Topics and Concepts:

- ☑ Polynomial and Rational Function Graphs
- ☑ End Behavior models
- ☑ Intervals of Increase and Decrease
- ☑ Vertical and Horizontal asymptotes
- ☑ Zeros of functions
- ☑ Extrema
- ☑ Rates of change

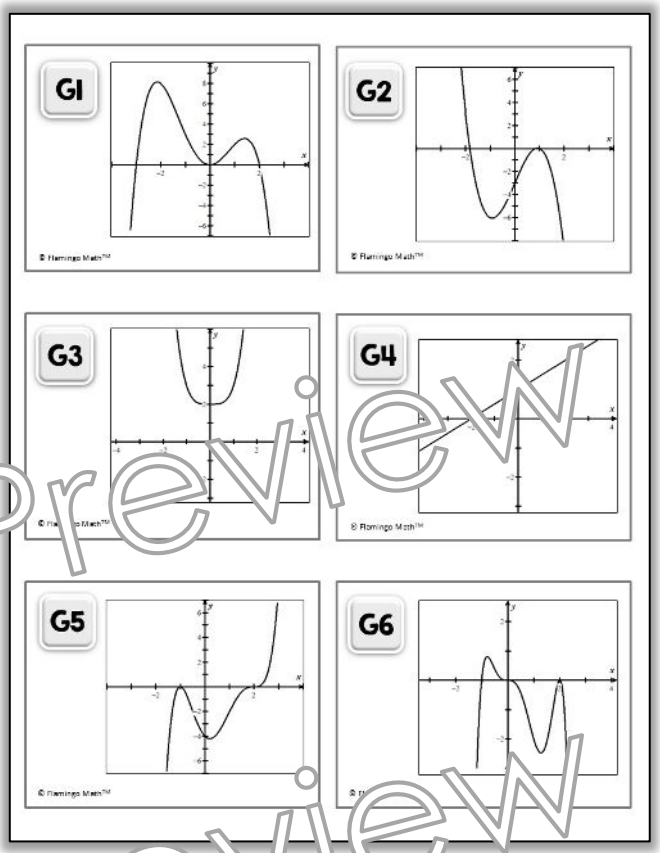
Teaching Suggestions:

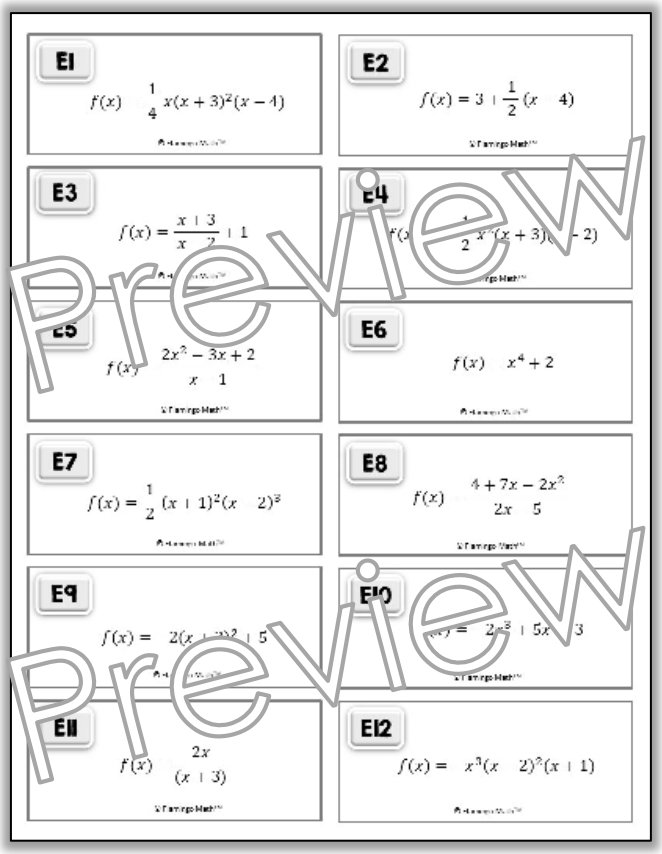
- Use the set as a group activity for 2-4 per group .
- Use the cards as an independent activity prior to assessing students.
- Use the cards in a math workshop type setting.

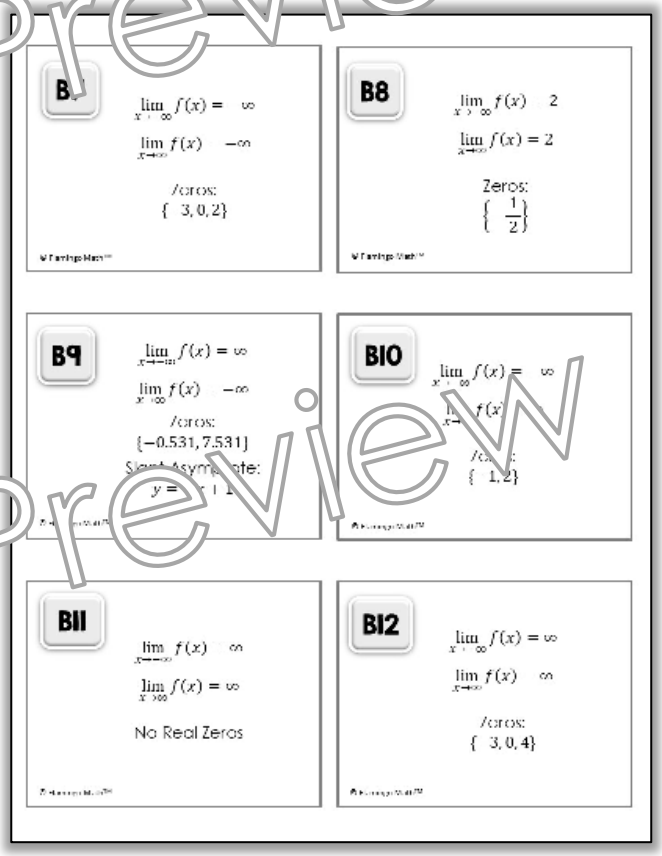
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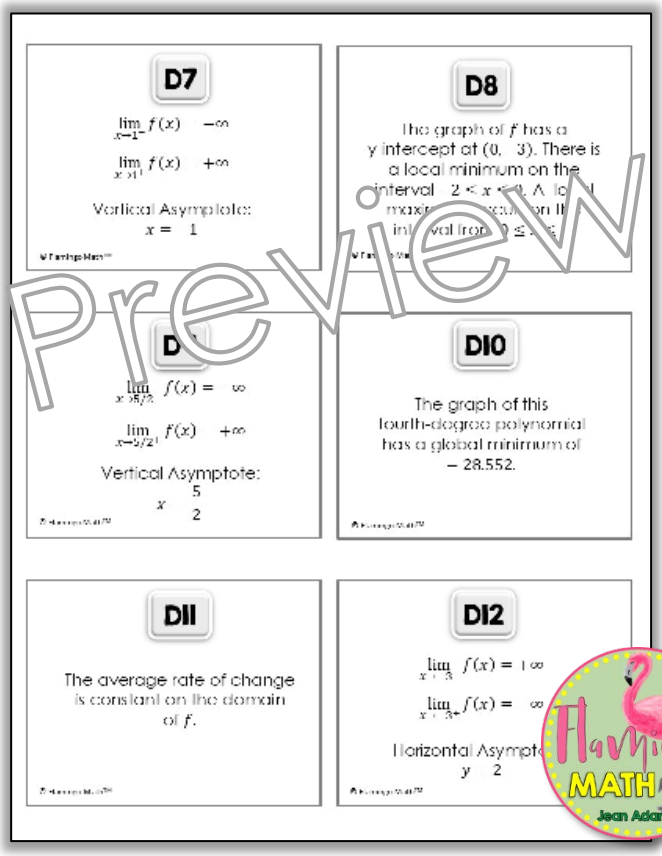
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