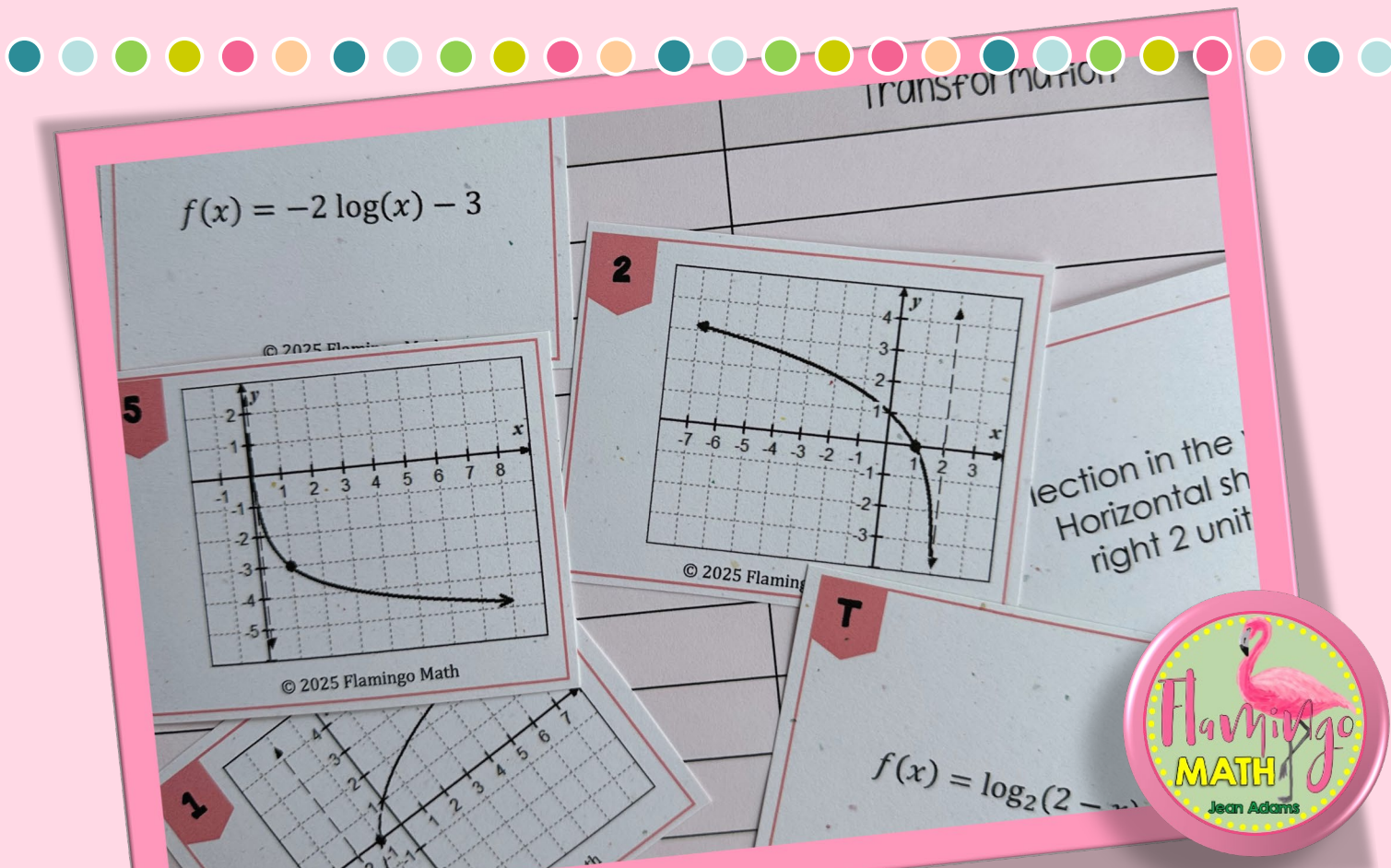
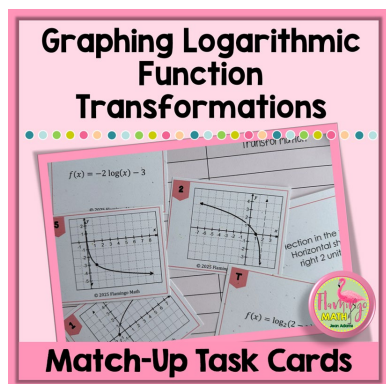


Graphing Logarithmic Function Transformations



Match-Up Task Cards

Graphing Logarithmic Function Transformations



KEY CONCEPTS/TOPICS:

1. Graphing logarithmic function transformations

GENERAL DIRECTIONS:

Students match a logarithmic graph card to the card that gives the corresponding equation. Then, they find the description for the transformation of the graph.

Product Overview

Graphing Logarithmic Function Transformations Match-Up Activity

Here's a great activity to reinforce **Graphing Logarithmic Function Transformations** and finding a statement that describes the transformation and matching an equation to the graph. There are nine graph cards, nine equation cards, and nine description cards, plus a student recording sheet to keep students accountable for their knowledge.

This activity is designed to help your **Algebra 2 Honors and Precalculus** students with graphing Logarithmic Function Transformations. There are 27 cards in the activity. The cards are sorted into sets: a graph, a corresponding equation, and a transformation description.

Copy the task cards on card stock and laminate for durability. There is an answer key included.

CCSS: HSF-BF.B.3; HSF-If.C.7e

TEKS: MA.9-12.A2.5.A

Graphing Logarithmic Function Transformations Match-Up

Graphing Logarithmic Function Transformations Match-Up

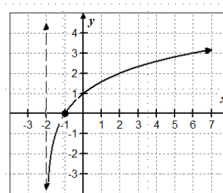
Names: _____

Directions: Match each graph card to its equation card. Then, find the transformation that matches the equation. Record your findings in the chart below.

Graph	Equation	Transformation
G1		
G2		
G3		
G4		
G5		
G9		

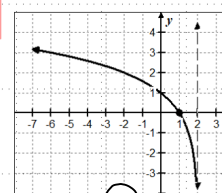
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1



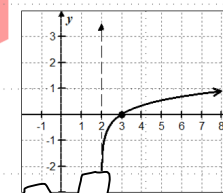
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2



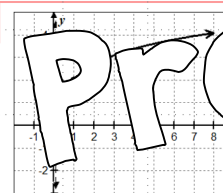
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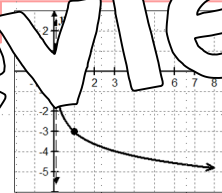
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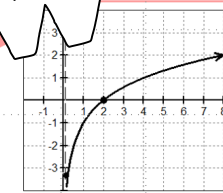
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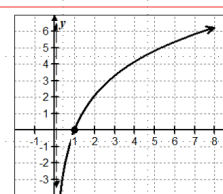
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6



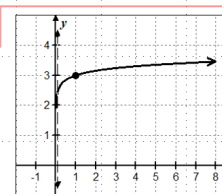
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7



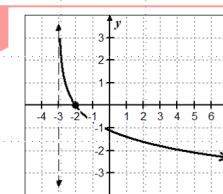
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9



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A

Reflection in x-axis;
Horizontal shift left 3 units

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B

Vertical shift
up 2 units

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C

Reflection in the y-axis;
Horizontal shift
right 2 units

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D

Vertical shrink by a
factor of 2;
Vertical shift up 3 units

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E

Vertical stretch by a
factor of 3

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F

Horizontal shift
left 2 units

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G

Reflect across the x-axis;
Vertical stretch by a
factor of 2;
Vertical shift down
3 units

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H

Horizontal stretch by a
factor of 2 or a vertical
shift 1 unit down

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J

Vertical shrink by a
factor of $\frac{1}{2}$;
Horizontal shift right
2 units

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M

$$f(x) = \ln(x)$$

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N

$$f(x) = \log_2\left(\frac{x}{2}\right)$$

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O

$$f(x) = -2 \log(x) - 3$$

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Q

$$f(x) = \frac{1}{2} \log(x) + 3$$

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R

$$f(x) = \log(x + 2)$$

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S

$$f(x) = \frac{1}{2} \ln(x - 2)$$

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T

$$f(x) = \log_2(2 - x)$$

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U

$$f(x) = \ln(x) + 2$$

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V

$$f(x) = -\ln(x + 3)$$

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