



Graphing Logarithmic Functions Match-Up Activity

KEY CONCEPTS/TOPICS:

1. Graphing logarithmic functions
2. Write the Inverse function of a logarithmic function

Here's a great activity to reinforce **Graphing Logarithmic Functions** and finding inverses of logarithmic functions. There are twelve graph cards, twelve equation cards and 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 Functions and their inverses. There are 24 cards in the activity. The cards are sorted into sets: a graph and its corresponding equation. Students will use algebraic methods to solve for the inverse function.

Copy the task cards on card stock and laminate for durability. There are two different sizes for your preference. An answer key is included.

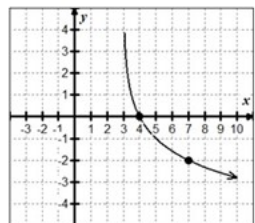
CCSS: HSF.LE.A.1.C, HSF.LE.A.2

TEKS & ELPS: A2.5.A, A2.5.B, A2.5.C



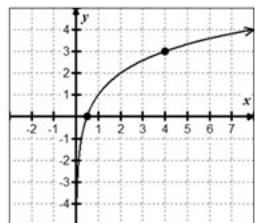
Large Task Cards

1.



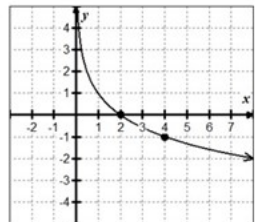
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2.



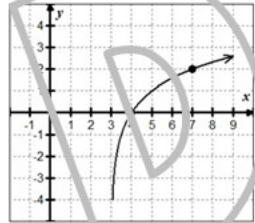
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3.



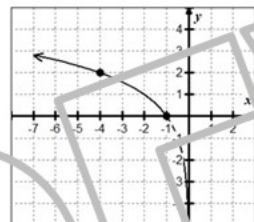
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5.



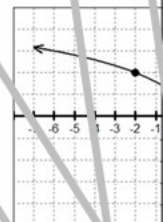
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7.

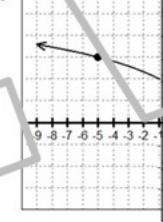


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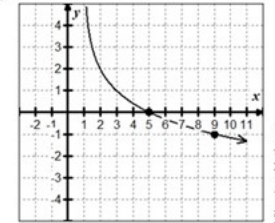
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10.

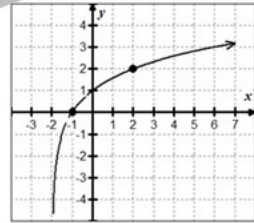


12.



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11.



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A.

$$y = \log_2(x - 3)$$

B.

$$y = \log_2(x - 1)$$

C.

$$y = \log_2(x)$$

G.

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

H.

$$y = \log_2(-x)$$

E.

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

J.

$$y = -\log_2(x - 3)$$

K.

$$y = \log_2(x + 2)$$

L.

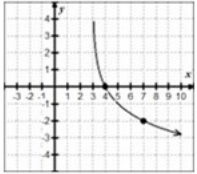
$$y = 2 - \log_2(x - 1)$$

M.

$$y = 2 \log_2(3 - x) + 2$$

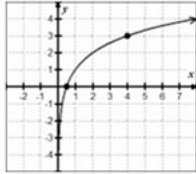
Small Task Cards

1.



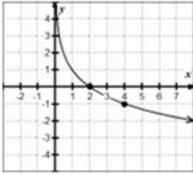
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2.



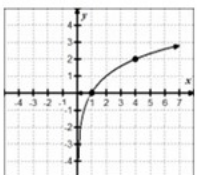
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3.



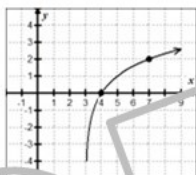
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4.



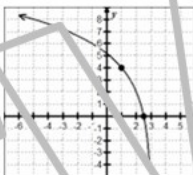
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5.



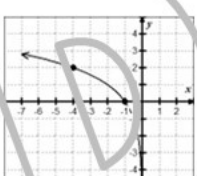
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6.



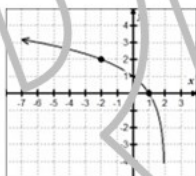
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7.



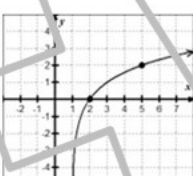
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8.



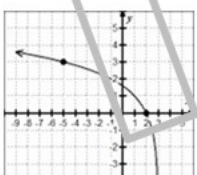
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9.



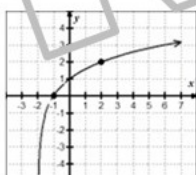
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10.



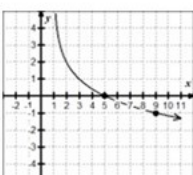
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11.



(C) 2022 FlamingoMath.com

12.



(C) 2022 FlamingoMath.com

A.

$$y = \log_2(x-3)$$

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B.

$$y = \log_2(x-1)$$

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C.

$$y = \log_2(x) + 1$$

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D.

$$y = -\log_2(x) + 1$$

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E.

$$y = \log_2(3-x)$$

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F.

$$y = \log_2(x)$$

(C) 2022 FlamingoMath.com

G.

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

(C) 2022 FlamingoMath.com

H.

$$y = \log_2(-x)$$

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J.

$$y = -\log_2(x-3)$$

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K.

$$y = \log_2(x+2)$$

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L.

$$y = 2 - \log_2(x-1)$$

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M.

$$y = 2 \log_2(3-x) + 2$$

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Student Recording Sheet

Graphing Logarithmic Functions Match Up

Names: _____

GRAPH	EQUATION	INVERSE EQUATION
G1		
G2		
G3		
G4		
G5		
G6		
G7		
G8		
G9		
G10		
G11		
G12		

Directions: Match each graph card to its equation card. Then, find the inverse function equation. Record your findings in the chart above.

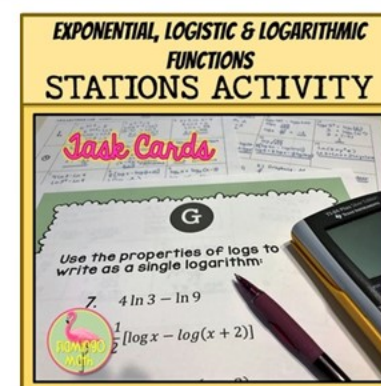
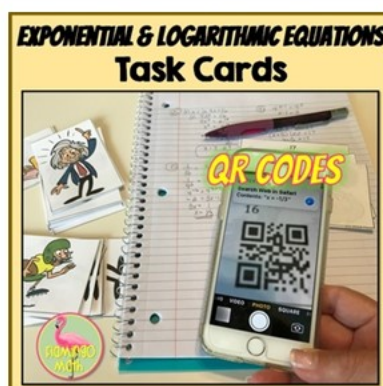
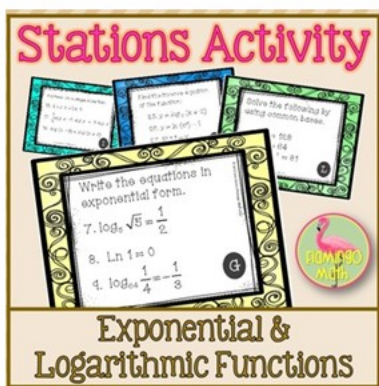
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