

Today's Plan:

Learning Target (standard): I will review exponential and logarithmic functions.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and complete quiz problems.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide quiz problems.

Assessment: Board work, homework check and quiz

Differentiation: Students will work at the board, go over and correct homework at their seats, and actively engage in quiz problems.

Exponential & Logarithmic
Functions Practice 2 #1-12

QUIZ Today!

1) $D: \mathbb{R}; R: \{y \mid y > 2\}; HA: y = 2$

2) $D: \mathbb{R}; R: \{y \mid y > -1\}; HA: y = -1$

3) $D: \{x \mid x > -5\}; R: \mathbb{R}; VA: x = -5$

4) $D: \{x \mid x > 3\}; R: \mathbb{R}; VA: x = 3$

5) $20^{11} = x$

6) $3^x = y$

7) $\log_{11} x = y$

8) $\log_9 n = 2$

9) $x = 3$

10) $x = -6$

11) 3.951

12) 0.255

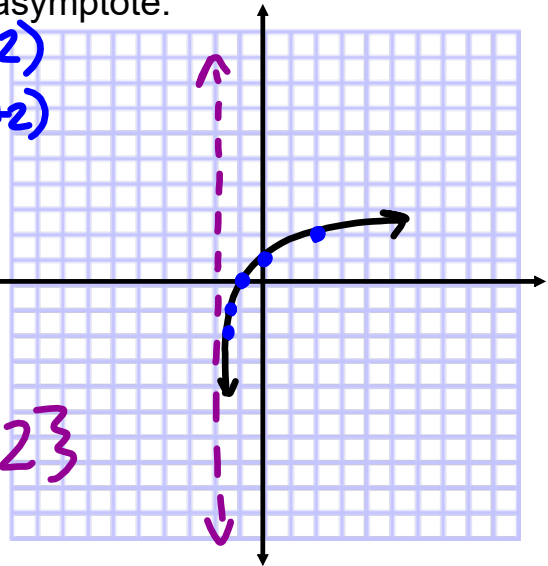
Graph. State the domain and range and asymptote.

$$f(x) = \frac{1}{2} \log_2(x+2)$$

x	y
-1.75	-2
-1.5	-1
-1	0
0	1
2	2

$y = \frac{1}{2} \log_2(x+2)$
 $2y = \log_2(x+2)$
 $2^y = x+2$
 $x = 2^y - 2$

VA: $x = -2$
 D: $\{x \mid x > -2\}$
 R: \mathbb{R}



Graph. State the domain and range and asymptote.

$$f(x) = e^{-x} - 1$$

x	y
-2	6.389
-1	1.718
0	0
1	-0.632
2	-0.865

HA: $y = -1$

D: \mathbb{R}

R: $\{y \mid y > -1\}$

