

Happy Thursday, February 2nd!

Do Now:

1) Grab belongings  
and find a seat in the  
room next door.  
(Unless you have  
questions)

Did Phil see his shadow?

Since 1887:

113 Shadow sitings

16 no shadow

Feb 2-7:49 AM

Happy Thursday, February 2nd!

Do Now:

1) Get notes out from  
yesterday.  
2) Take worksheet from  
back table.

Did Phil see his shadow?

Since 1887:

113 Shadow sitings

16 no shadow

Feb 2-7:49 AM

Graphing Exp:  $y = a \cdot b^{x+h} + k$

Make a table

x	y
0	-2
1	-1
2	1
3	5

$y = 2^x - 3$

Asymptote:  $y = -3$

Y-int:  $(0, -2)$

Growth ↗

Feb 2-8:41 AM

Graphing Logs  $y = \log_b(x+h) + k$

$y = \log_2(x+1)$

x	y
0	0
1	1
3	2
7	3

$\log_2(x+1) = y$

$2^y = x+1$

$2^2 = x+1$

Asymptote:  $x = -1$

X-intercept:  $(0, 0)$

Feb 2-8:41 AM

Group 1

$$y = 3^{x+4}$$

Group 2

$$y = -1 \cdot 3^x$$

Group 3

$$y = 3^x - 5$$

Group 6

$$y = \log_2(x - 4)$$

Group 7

$$y = -\log_2 x$$

Group 8

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

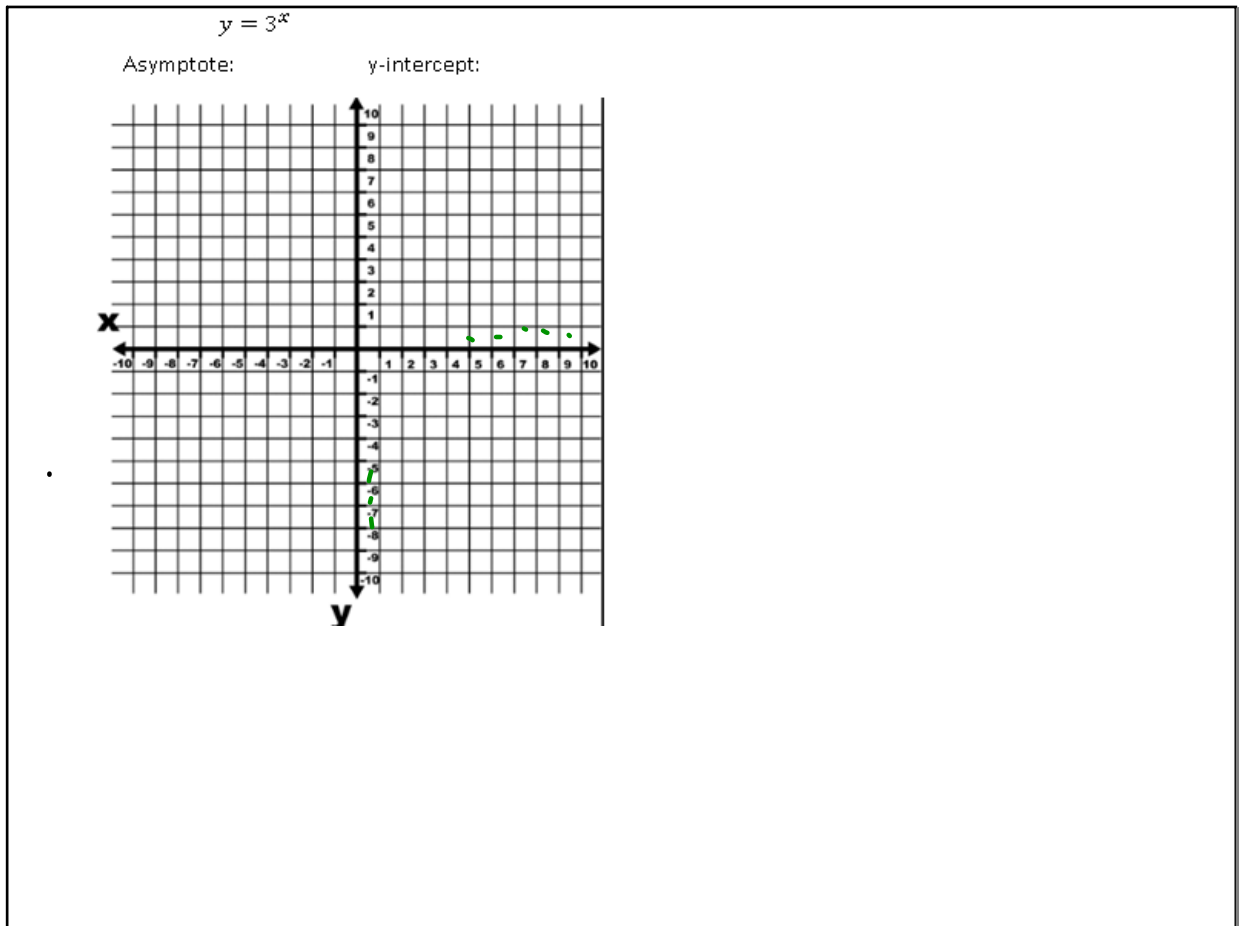
Feb 2-11:00 AM

Today:

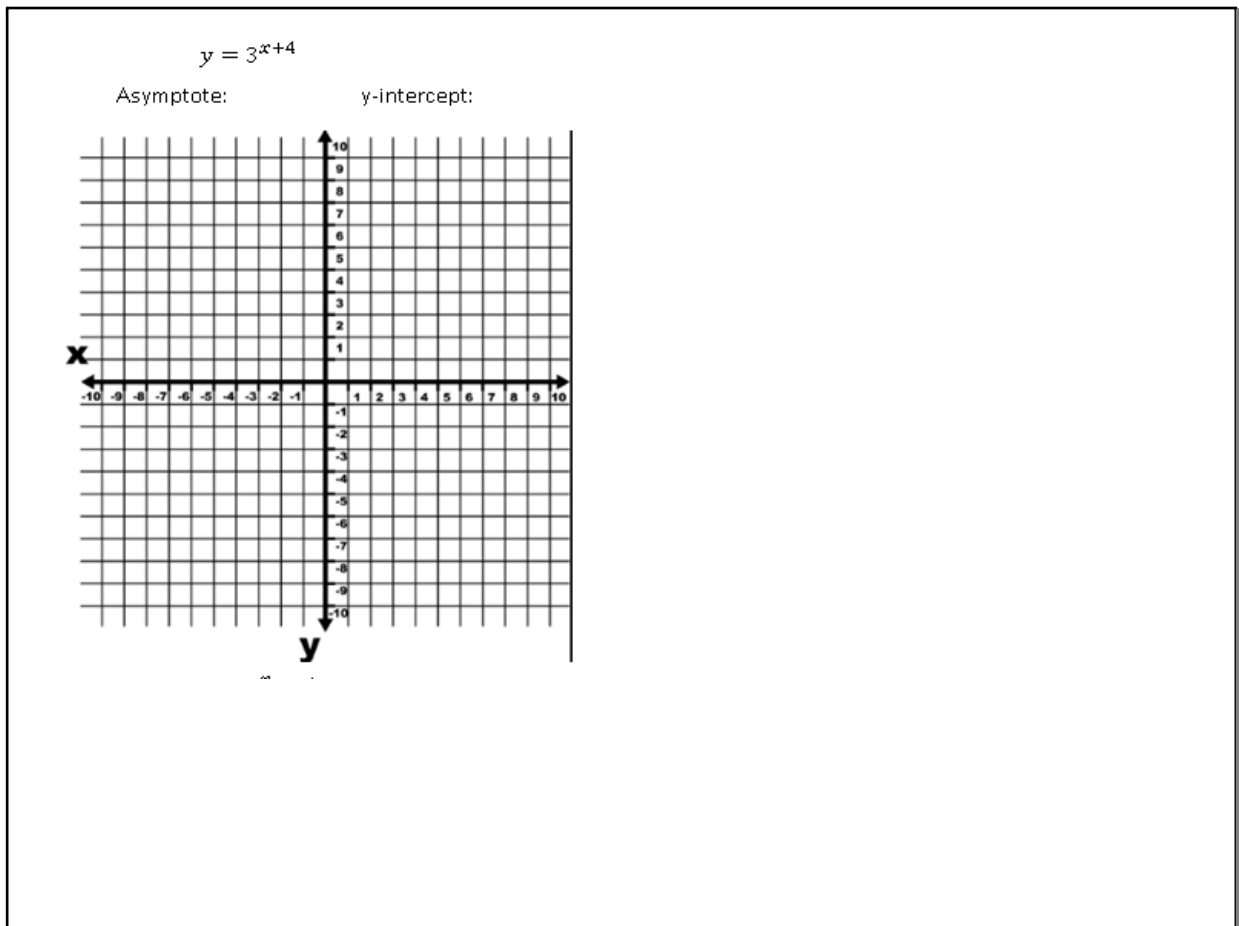
On your paper, there are 8 graphs. You will work with the people sitting at your table on all 8 graphs.

Each Group will be presenting (today or tomorrow) on one graph. I will tell you which once your group is finished with all 8 graphs.

Feb 2-8:03 AM



Feb 2-8:05 AM

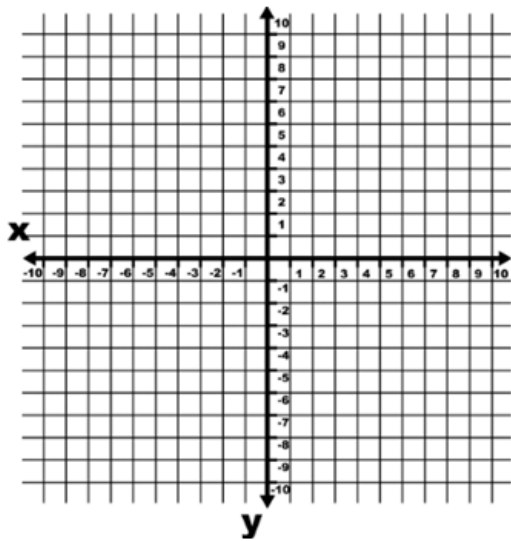


Feb 2-8:05 AM

$$y = -1 \cdot 3^x$$

Asymptote:

y-intercept:

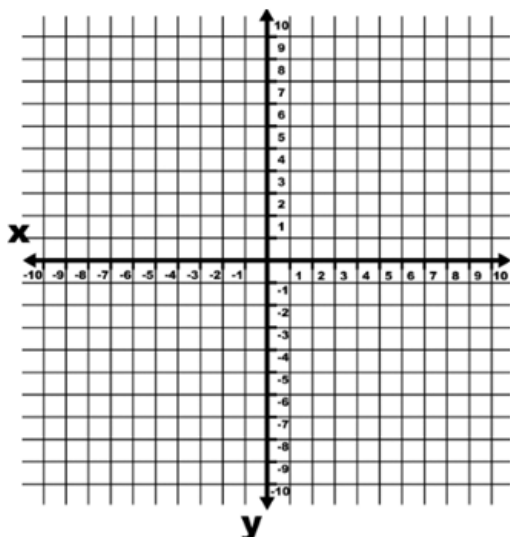


Feb 2-8:06 AM

$$y = 3^x - 5$$

Asymptote:

y-intercept:

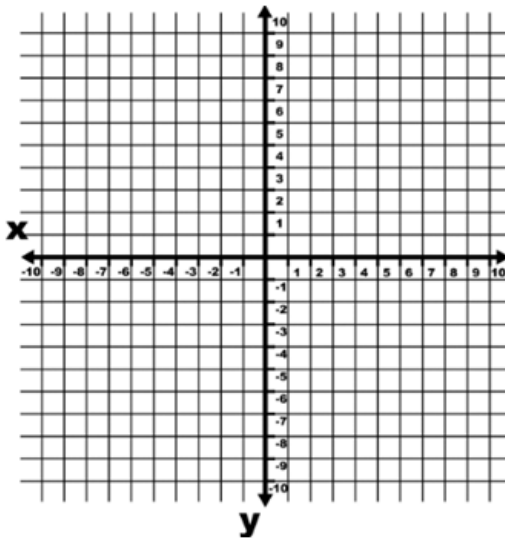


Feb 2-8:06 AM

$$y = \log_2 x$$

Asymptote:

x-intercept:

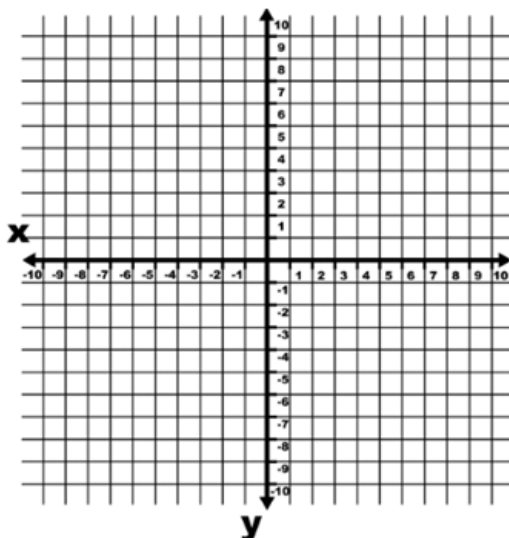


Feb 2-8:06 AM

$$y = \log_2(x - 4)$$

Asymptote:

x-intercept:

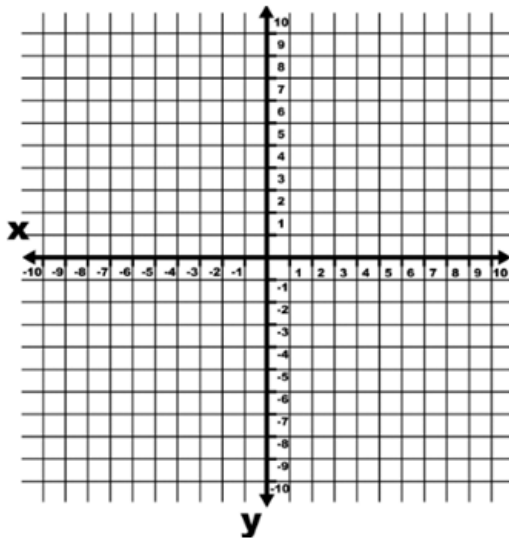


Feb 2-8:07 AM

$$y = -\log_2 x$$

Asymptote:

x-intercept:

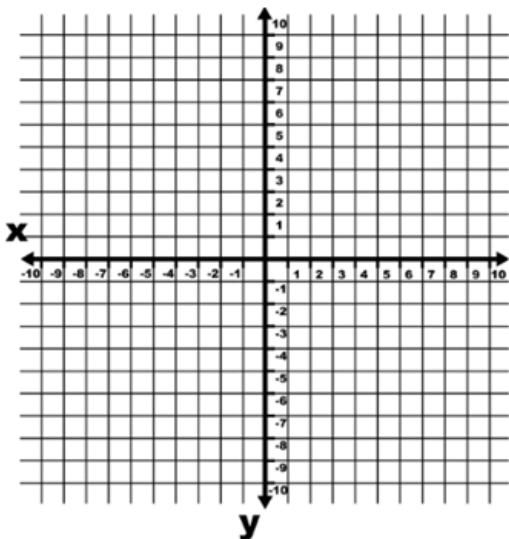


Feb 2-8:07 AM

$$y = \log x + 1$$

Asymptote:

x-intercept:



Feb 2-8:07 AM