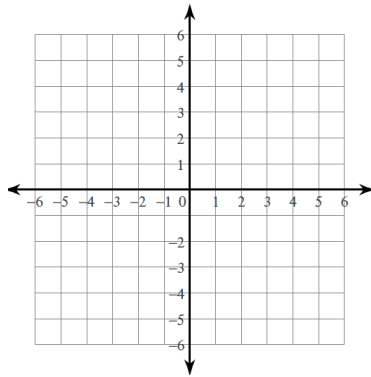


Graphing and analyzing exponential graphs

Graph each of the following

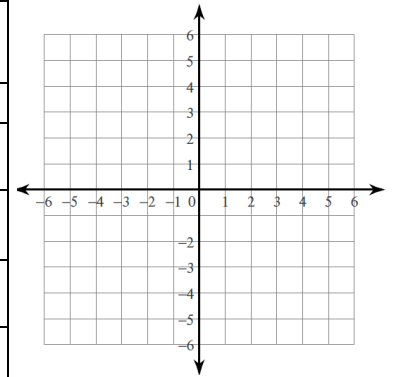
1. Graph the following

$y = -\frac{1}{2}\left(\frac{1}{4}\right)^x + 6$	
x	y
-2	
-1	
0	
1	
2	



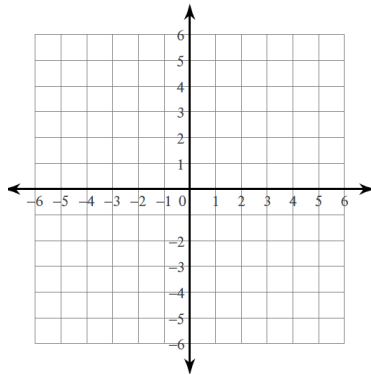
2. Graph the following

$y = 2\left(\frac{1}{2}\right)^{x-1} + 2$	
x	y
0	
1	
2	
3	
4	



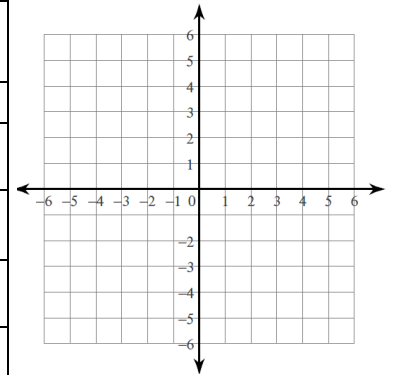
3. Graph the following

$y = (3)^{x+1} - 5$	
x	y
-3	
-2	
-1	
0	
1	



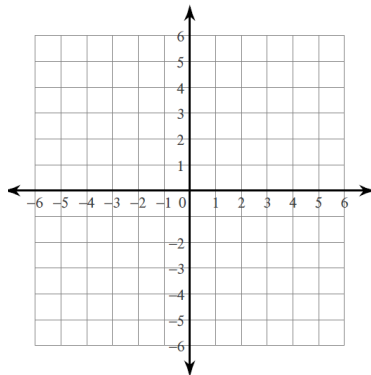
4. Graph the following

$y = -\left(\frac{3}{2}\right)^{x+3}$	
x	y
-3	
-2	
-1	
0	
1	



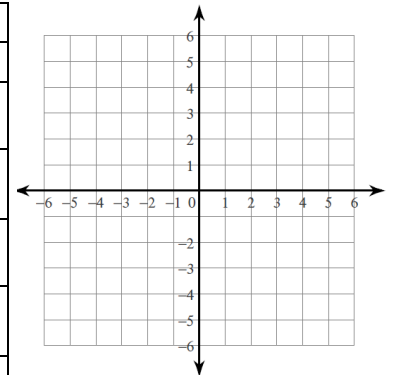
5. Graph the following

$y = -3\left(\frac{1}{3}\right)^{x+3} + 3$	
x	y
-4	
-3	
-2	
-1	
0	



6. Graph the following

$y = 3(2)^x - 4$	
x	y
-2	
-1	
0	
1	
2	



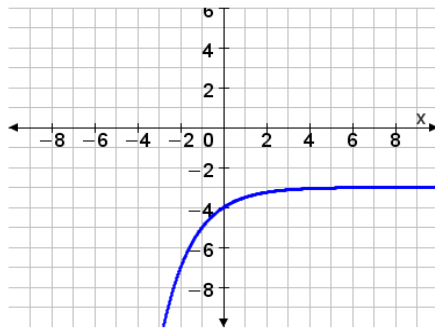
7. Which of the following could be the equation for the graph shown?

A. $f(x) = -\left(\frac{1}{2}\right)^{x-3}$

B. $f(x) = \left(\frac{1}{2}\right)^x - 3$

C. $f(x) = -(2)^x - 3$

D. $f(x) = -\left(\frac{1}{2}\right)^x - 3$



8. Domain:

9. Range:

10. End Behavior $x \rightarrow -\infty, y \rightarrow$
 $x \rightarrow \infty, y \rightarrow$

11. Asymptote:

12. y- intercept:

13. Zeros:

14. Growth/Decay?

15. Increasing/Decreasing?

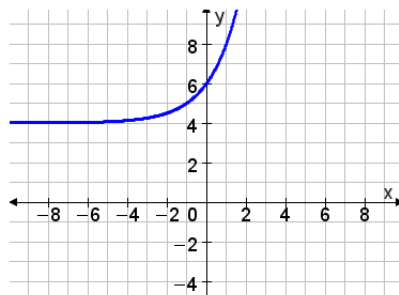
16. Which of the following could be the equation for the graph ?

A. $f(x) = \frac{3}{4}(2)^x - 4$

B. $f(x) = 2\left(\frac{1}{2}\right)^x + 4$

C. $f(x) = 2(2)^x + 4$

D. $f(x) = 2(2)^{x+4}$



17. Domain:

18. Range:

19. End Behavior $x \rightarrow -\infty, y \rightarrow$
 $x \rightarrow \infty, y \rightarrow$

20. Asymptote:

21. y- intercept:

22. Zeros:

23. Growth/Decay?

24. Increasing/Decreasing?

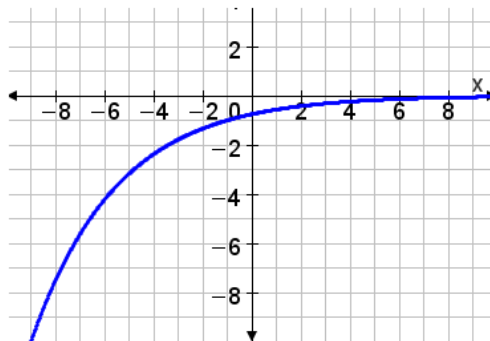
25. Which of the following could be the equation for the graph shown?

A. $f(x) = -\left(\frac{3}{4}\right)^{x+1}$

B. $f(x) = -\left(\frac{3}{4}\right)^x + 1$

C. $f(x) = -\left(\frac{4}{3}\right)^x$

D. $f(x) = \left(\frac{3}{4}\right)^{x+1}$



26. Domain:

27. Range:

28. End Behavior $x \rightarrow -\infty, y \rightarrow$
 $x \rightarrow \infty, y \rightarrow$

29. Asymptote:

30. y- intercept:

31. Zeros:

32. Growth/Decay?

33. Increasing/Decreasing?

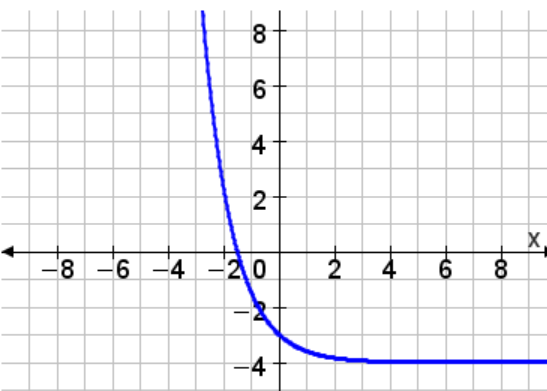
34. Which of the following could be the equation for the graph shown?

A. $f(x) = \left(\frac{5}{2}\right)^x - 4$

B. $f(x) = \left(\frac{2}{5}\right)^x - 4$

C. $f(x) = -\left(\frac{2}{5}\right)^x - 4$

D. $f(x) = -\left(\frac{5}{2}\right)^x - 4$



35. Domain:

36. Range:

37. End Behavior $x \rightarrow -\infty, y \rightarrow$
 $x \rightarrow \infty, y \rightarrow$

38. Asymptote:

39. y- intercept:

40. Zeros:

41. Growth/Decay?

42. Increasing/Decreasing?

