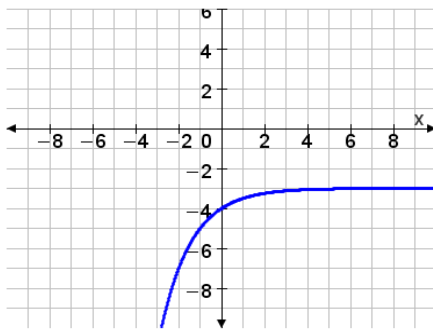


Graphing and analyzing exponential graphs

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



2. Domain:

3. Range:

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

5. Asymptote:

6. y- intercept:

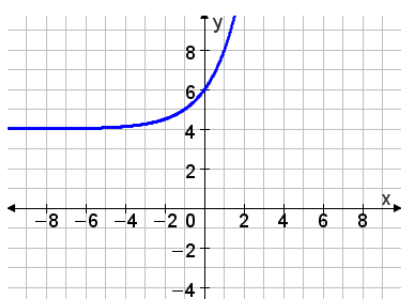
7. Zeros:

8. Growth/Decay?

9. Increasing/Decreasing?

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



11. Domain:

12. Range:

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

14. Asymptote:

15. y- intercept:

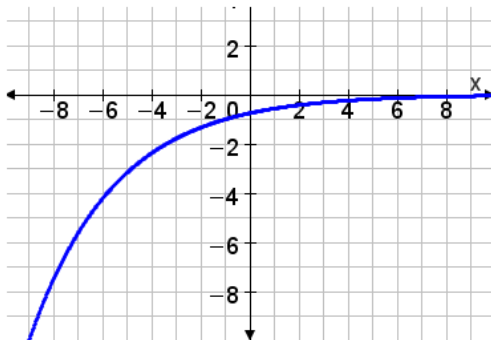
16. Zeros:

17. Growth/Decay?

18. Increasing/Decreasing?

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



20. Domain:

21. Range:

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

23. Asymptote:

24. y- intercept:

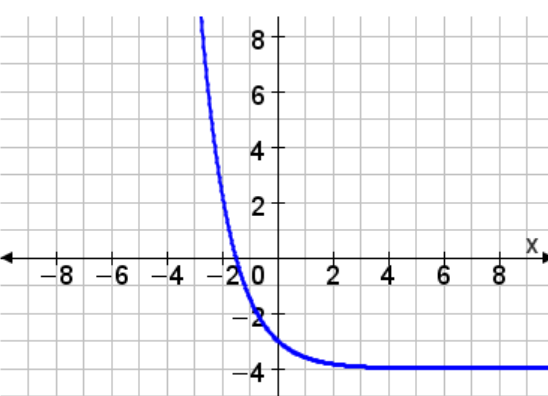
25. Zeros:

26. Growth/Decay?

27. Increasing/Decreasing?

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



29. Domain:

30. Range:

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

32. Asymptote:

33. y- intercept:

34. Zeros:

35. Growth/Decay?

36. Increasing/Decreasing?