Exponential Functions Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. Which one of these is an exponential function?
   a. $0.1^x + 2$
   b. $e^x - 1$
   c. $3^x$
   d. All of these

2. The domain of an exponential function is:
   a. $(-\infty, +\infty)$
   b. $(-\infty, 0)$
   c. $(0, +\infty)$
   d. None of these

3. $2^{-\infty} = \underline{\hspace{2cm}}$
   a. $\infty$
   b. $-\infty$
   c. 0
   d. 1

4. The asymptote of the function $f(x) = 2^x + 4$ is:
   a. $y = 5$
   b. $y = 4$
   c. $y = 0$
   d. None of these

Part B Instructions: Answer the question below.

5. Graph the function $y = 0.1^{x+2}$. 

[Graph paper grid]
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**Answers**

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**Part B Instructions:** Answer the question below.

5. Graph the function $y = 0.1^{x+2}$. 

![Graph of $y = 0.1^{x+2}$]