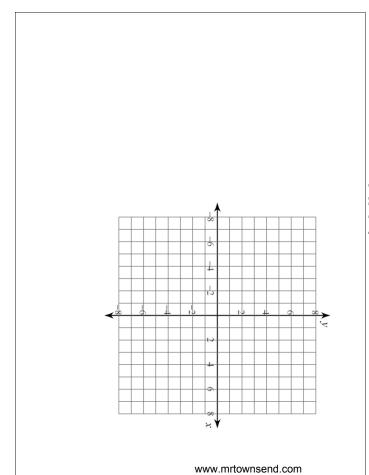
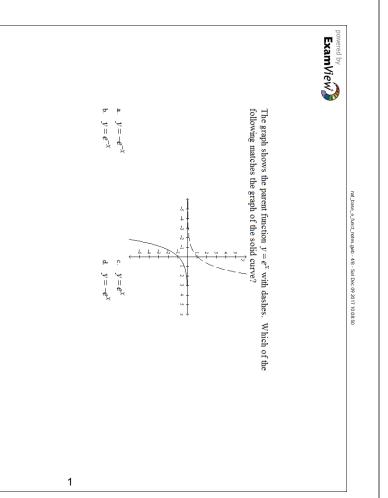
A natural base exponential function can be written as:

Exponential growth:

Exponential decay:

Powered by powered by ExamView: The graph shows the parent function $y = e^{x}$ with dashes. Which of the following matches the graph of the solid curve? The graph shows the parent function $y = e^{x}$ with dashes. Which of the following matches the graph of the solid curve?

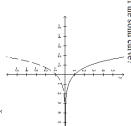




a. $y = e^{-x}$ b. $y = -e^{-x}$

c. $y = -e^x$ d. $y = e^x$

The graph shows the function $y = -e^{-X}$ with dashes. Which of the following matches the graph of the solid curve?



a. $y = -e^{x}$ b. $y = e^{-x}$

c. $y = e^x$ d. $y = -e^{-x}$

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ExamView

The chart shows locations for the function, $y = ae^{rx}$. What is the value of a to the nearest tenth when r is 1.5?

\mathcal{Y}	\boldsymbol{x}
-0.4686	-1
-2.1	0
-9.4115	1
-42.1796	2

ExamView

The chart shows locations for the function, $y = ae^{tx}$. Which is the closest value of r when a is -0.2?

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\mathcal{Y}	\boldsymbol{x}
-0.364	-2
-0.27	-1
-0.2	0
-0.148	1

a. 0.1 b. -0.3

c. -0.9 d. -0.4

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ExamView

The chart shows locations for the function, $y = ae^{rx}$. Which is the closest value of a when r is -0.6?

\mathcal{Y}	\boldsymbol{x}	
-7.636	-2	
-4.191	-1	
-2.3	0	
-1.262	1	

a. -2.2 b. -2.7

c. -2.3 d. -1.8

2