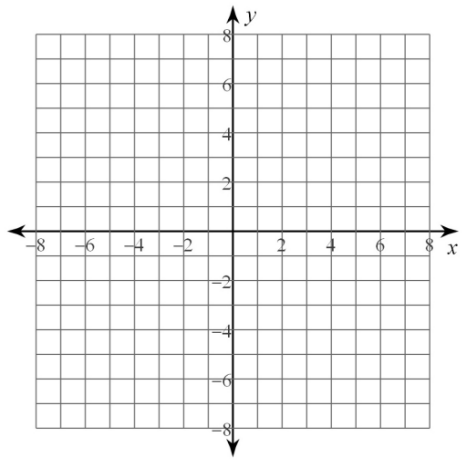
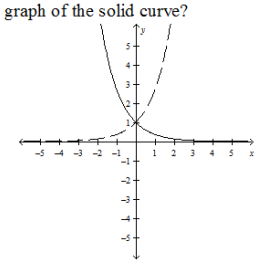
A natural base exponential function can be written as:

Exponential growth:

Exponential decay:



The graph shows the parent function $y = e^x$ with dashes. Which of the following matches the graph of the solid curve?



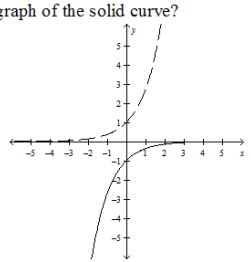
a. $y = e^{-x}$

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

c. $y = -e^x$

d. $y = e^x$

The graph shows the parent function $y = e^x$ with dashes. Which of the following matches the graph of the solid curve?



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

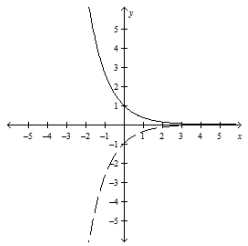
b. $y = e^{-x}$

c. $y = e^x$

d. $y = -e^x$

powered by ExamView

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

powered by ExamView

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

x	–2	–1	0	1
y	–0.364	–0.27	–0.2	–0.148

a. 0.1
b. –0.3
c. –0.9
d. –0.4

powered by 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?

x	–1	0	1	2
y	–0.4686	–2.1	–9.4115	–42.1796

powered by ExamView

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

x	–2	–1	0	1
y	–7.636	–4.191	–2.3	–1.262

a. –2.2
b. –2.7
c. –2.3
d. –1.8