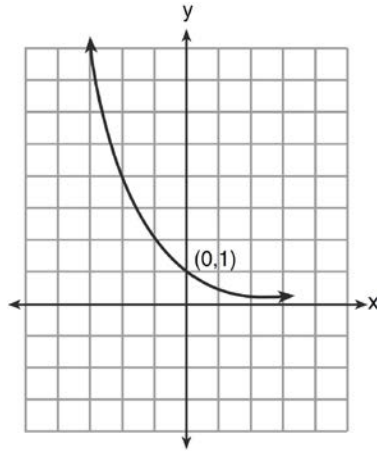


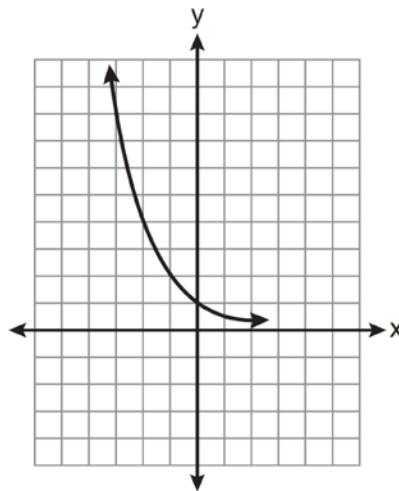
F.LE.A.2: Modeling Exponential Functions 1

1 What is the equation of the graph shown below?



- 1) $y = 2^x$
- 2) $y = 2^{-x}$
- 3) $x = 2^y$
- 4) $x = 2^{-y}$

2 Which equation is represented by the graph below?



- 1) $y = 5^x$
- 2) $y = 0.5^x$
- 3) $y = 5^{-x}$
- 4) $y = 0.5^{-x}$

F.LE.A.2: Modeling Exponential Functions 1
Answer Section

1 ANS: 2 REF: 011301a2

2 ANS: 2 REF: 061108a2

3 ANS:

$y = 0.25(2)^x$. I inputted the four integral values from the graph into my graphing calculator and determined the exponential regression equation.

REF: 011532ai

4 ANS: 1 REF: 081617ai

5 ANS: 4 REF: 011912ai

6 ANS: 3

$$\frac{5.4 - 4}{4} = 0.35$$

REF: 011802ai

7 ANS:

No. He found another point if $g(x)$ were a linear function.

REF: 062129ai