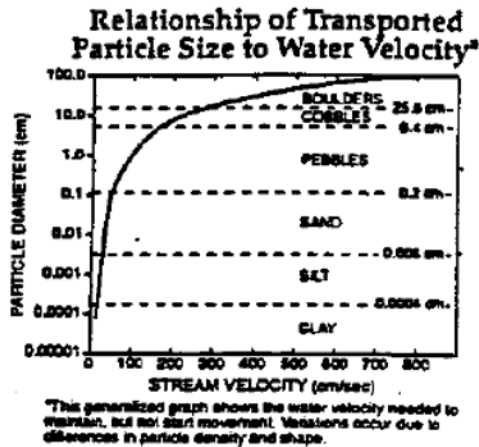


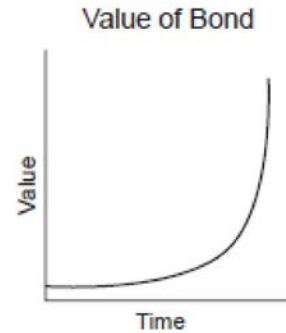
F.LE.A.2: Families of Functions 2a

- 1 The graph below represents the relationship of transported particle size to water velocity? The graph best models which type of function?



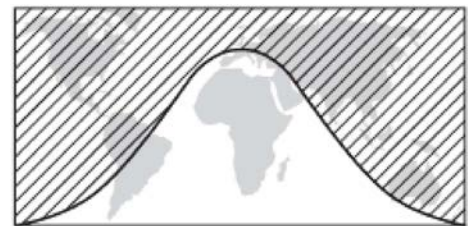
- 1) linear
- 2) quadratic
- 3) logarithmic
- 4) trigonometric

- 2 The accompanying graph represents the value of a bond over time.



Which type of function does this graph best model?

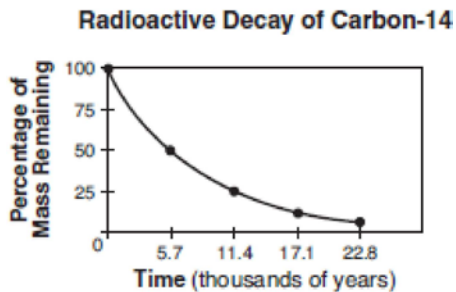
- 1) trigonometric
 - 2) logarithmic
 - 3) quadratic
 - 4) exponential
- 3 The shaded portion of the accompanying map indicates areas of night, and the unshaded portion indicates areas of daylight at a particular moment in time.



Which type of function best represents the curve that divides the area of night from the area of daylight?

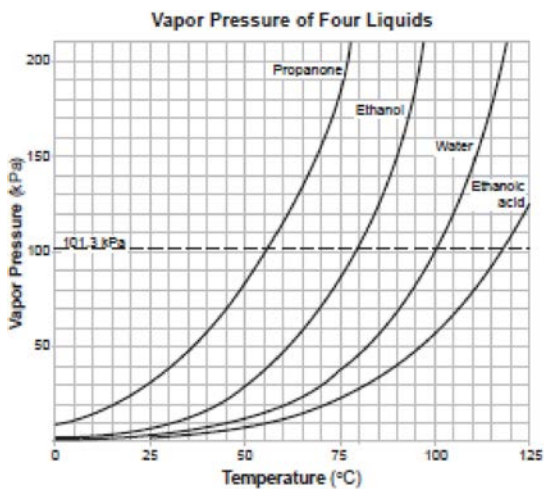
- 1) quadratic
- 2) cosine
- 3) tangent
- 4) logarithmic

- 4 Which type of function could be used to model the data shown in the accompanying graph?



- 1) exponential
- 2) quadratic
- 3) trigonometric
- 4) linear

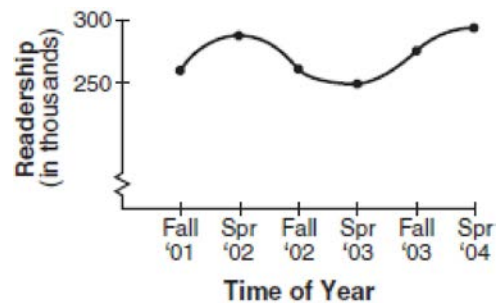
- 5 The family of curves shown in the accompanying graph illustrates the transformations of a function.



Which type of function could be the original function?

- 1) linear
- 2) tangent
- 3) exponential
- 4) sinusoidal

- 6 The accompanying graph shows the average daily readership, in thousands, of the newspaper “El Diario La Prensa.”



Which type of function best represents this graph?

- 1) exponential
- 2) logarithmic
- 3) trigonometric
- 4) quadratic

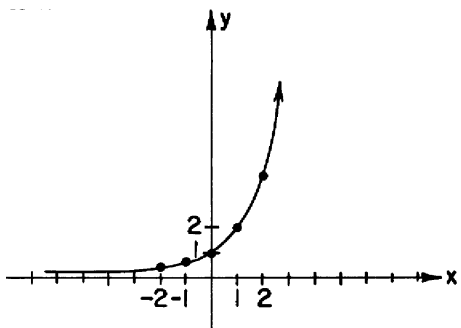
- 7 Four points on the graph of the function $f(x)$ are shown below.

$$\{(0, 1), (1, 2), (2, 4), (3, 8)\}$$

Which equation represents $f(x)$?

- 1) $f(x) = 2^x$
- 2) $f(x) = 2x$
- 3) $f(x) = x + 1$
- 4) $f(x) = \log_2 x$

8 Which is the equation of the graph shown below?

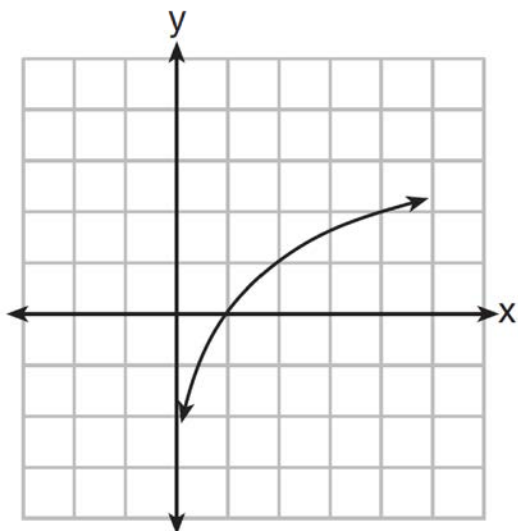


- 1) $y = \log_2 x$
- 2) $y = -\log_2 x$
- 3) $y = 2^x$
- 4) $y = 2^{-x}$

10 Which graph has line symmetry with respect to the y-axis?

- 1) $y = x$
- 2) $y = x^2$
- 3) $y = \sin x$
- 4) $y = \tan x$

9 Which equation is represented by the accompanying graph?



- 1) $y = 2^x$
- 2) $y = 2^{-x}$
- 3) $y = \log x$
- 4) $y = \log_2 x$

F.LE.A.2: Families of Functions 2a
Answer Section

1	ANS: 3	REF: fall9901b
2	ANS: 4	REF: 010203b
3	ANS: 2	REF: 010502b
4	ANS: 1	REF: 080710b
5	ANS: 3	REF: 080808b
6	ANS: 3	REF: 060913b
7	ANS: 1	REF: 061004a2
8	ANS: 3	REF: 088629siii
9	ANS: 4	REF: 061016b
10	ANS: 2	REF: 068120siii