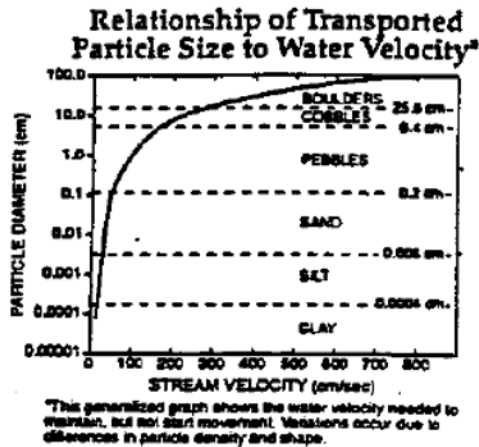
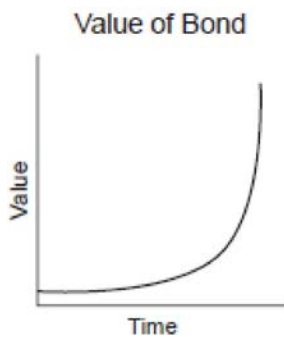


F.LE.A.2: Families of Functions 2b

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

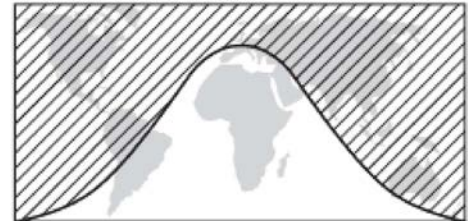


- 2 The accompanying graph represents the value of a bond over time.



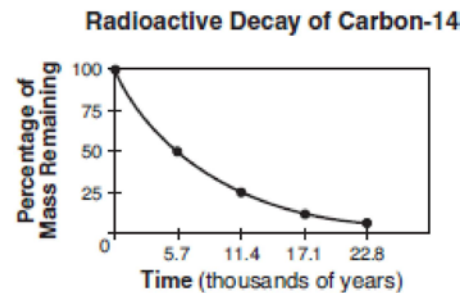
Which type of function does this graph best model?

- 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.

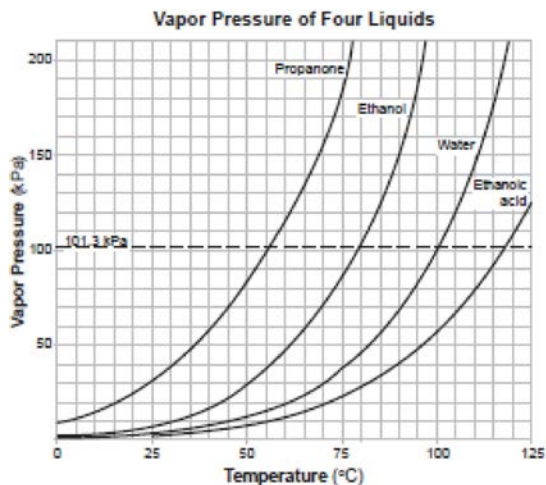


Which type of function best represents the curve that divides the area of night from the area of daylight?

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

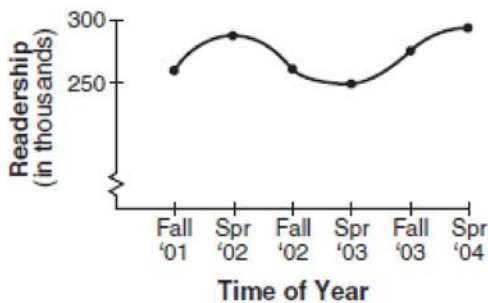


- 5 The family of curves shown in the accompanying graph illustrates the transformations of a function.



Which type of function could be the original function?

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



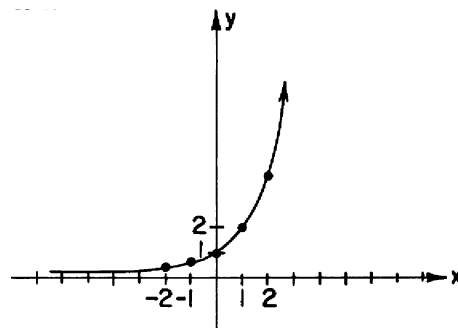
Which type of function best represents this graph?

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

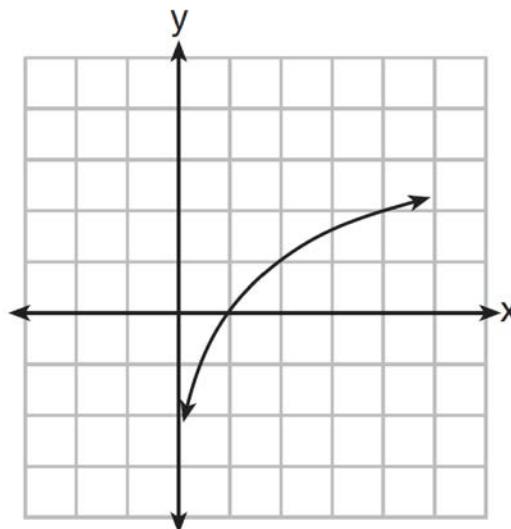
$$\{(0, 1), (1, 2), (2, 4), (3, 8)\}$$

Which equation represents $f(x)$?

- 8 Which is the equation of the graph shown below?



- 9 Which equation is represented by the accompanying graph?



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

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

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

1 ANS:
logarithmic

REF: fall9901b

2 ANS:
exponential

REF: 010203b

3 ANS:
cosine

REF: 010502b

4 ANS:
exponential

REF: 080710b

5 ANS:
exponential

REF: 080808b

6 ANS:
trigonometric

REF: 060913b

7 ANS:
 $f(x) = 2^x$

REF: 061004a2

8 ANS:
 $y = 2^x$

REF: 088629siii

9 ANS:
 $y = \log_2 x$

REF: 061016b

10 ANS: 2 REF: 068120siii