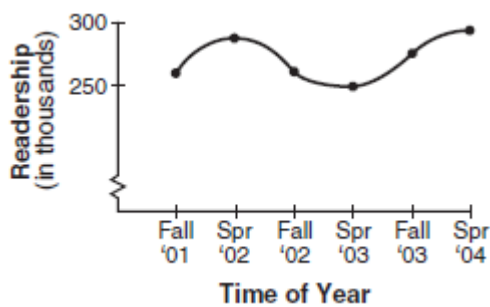*A2.A.52: Identify relations and functions, using graphs*

1. 060913b, P.I. A2.A.52

    The accompanying graph shows the average daily readership, in thousands, of the newspaper "El Diario La Prensa."
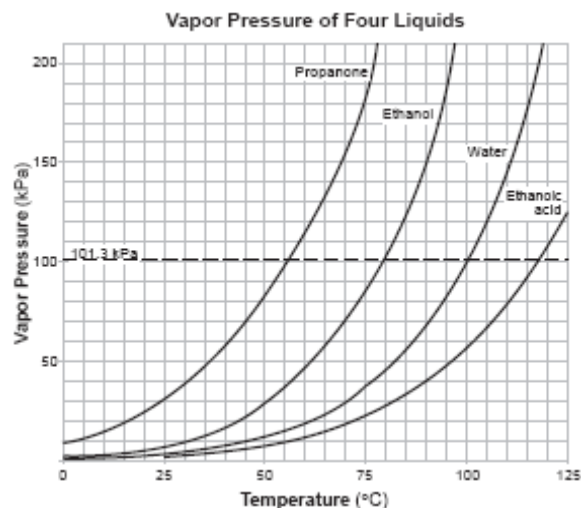
    Which type of function best represents this graph?

    [A] exponential   [B] quadratic

    [C] logarithmic   [D] trigonometric

2. 080808b, P.I. A2.A.52

    The family of curves shown in the accompanying graph illustrates the transformations of a function.
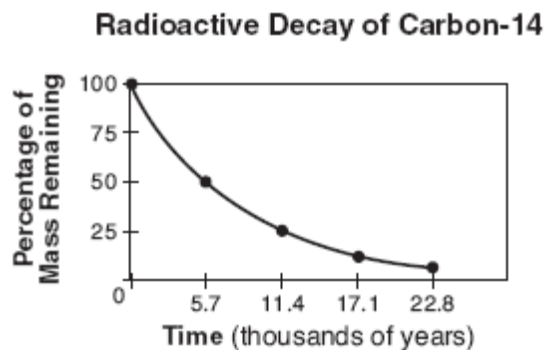
    Which type of function could be the original function?

    [A] exponential   [B] sinusoidal

    [C] tangent   [D] linear

3. 080710b, P.I.A2.A.52

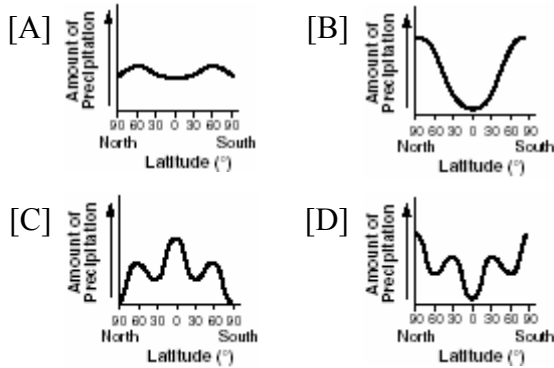   Which type of function could be used to model the data shown in the accompanying graph?

    [A] linear   [B] quadratic

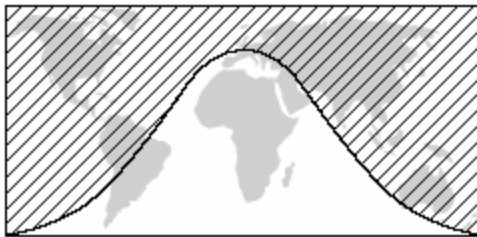   [C] trigonometric   [D] exponential

4. 080503b, P.I. A2.A.52

The graphs below show the average annual precipitation received at different latitudes on Earth. Which graph is a translated cosine curve?

[A]   [B]

[C]   [D]

5. 010502b, P.I. A2.A.52

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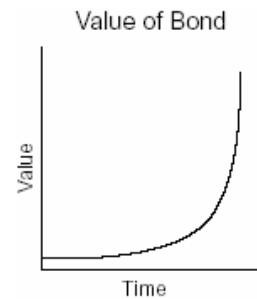
Which type of function best represents the curve that divides the area of night from the area of daylight?

[A] logarithmic   [B] quadratic

[C] tangent   [D] cosine

6. 010203b, P.I.A2.A.52

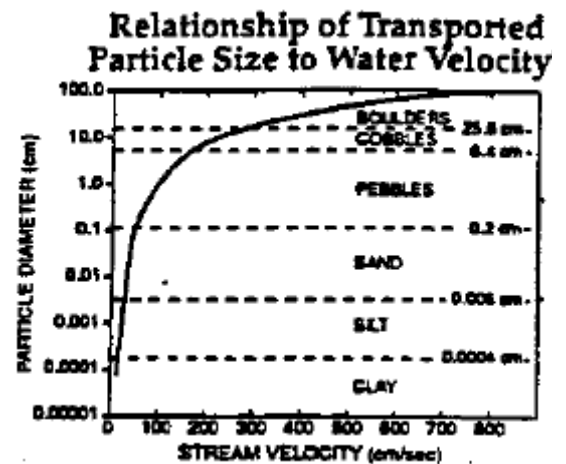The accompanying graph represents the value of a bond over time.

Which type of function does this graph best model?

[A] logarithmic   [B] exponential

[C] quadratic   [D] trigonometric

7. fall9901b, P.I. A2.A.52

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

[A] trigonometric   [B] linear

[C] logarithmic   [D] quadratic

A2.A.52: Identify relations and functions, using graphs

[1] D

[2] A

[3] D

[4] B

[5] D

[6] B

[7] C