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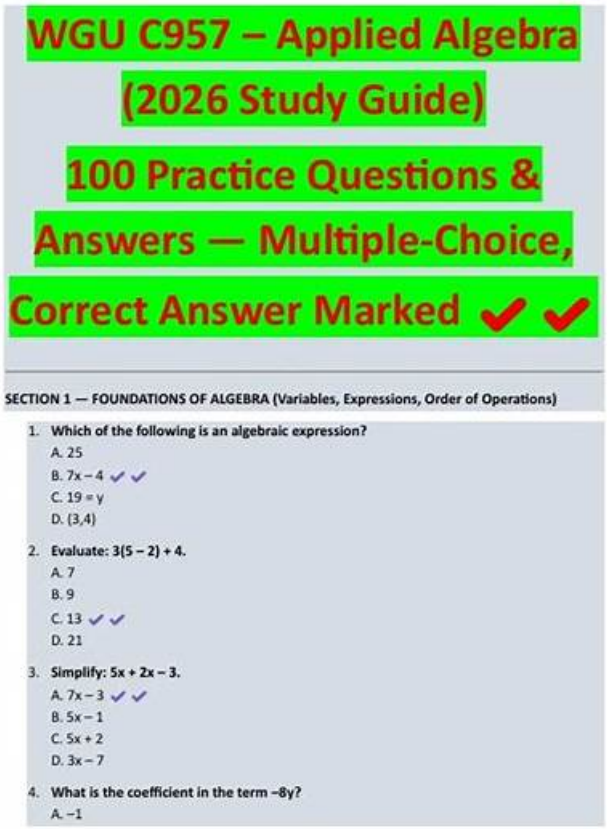

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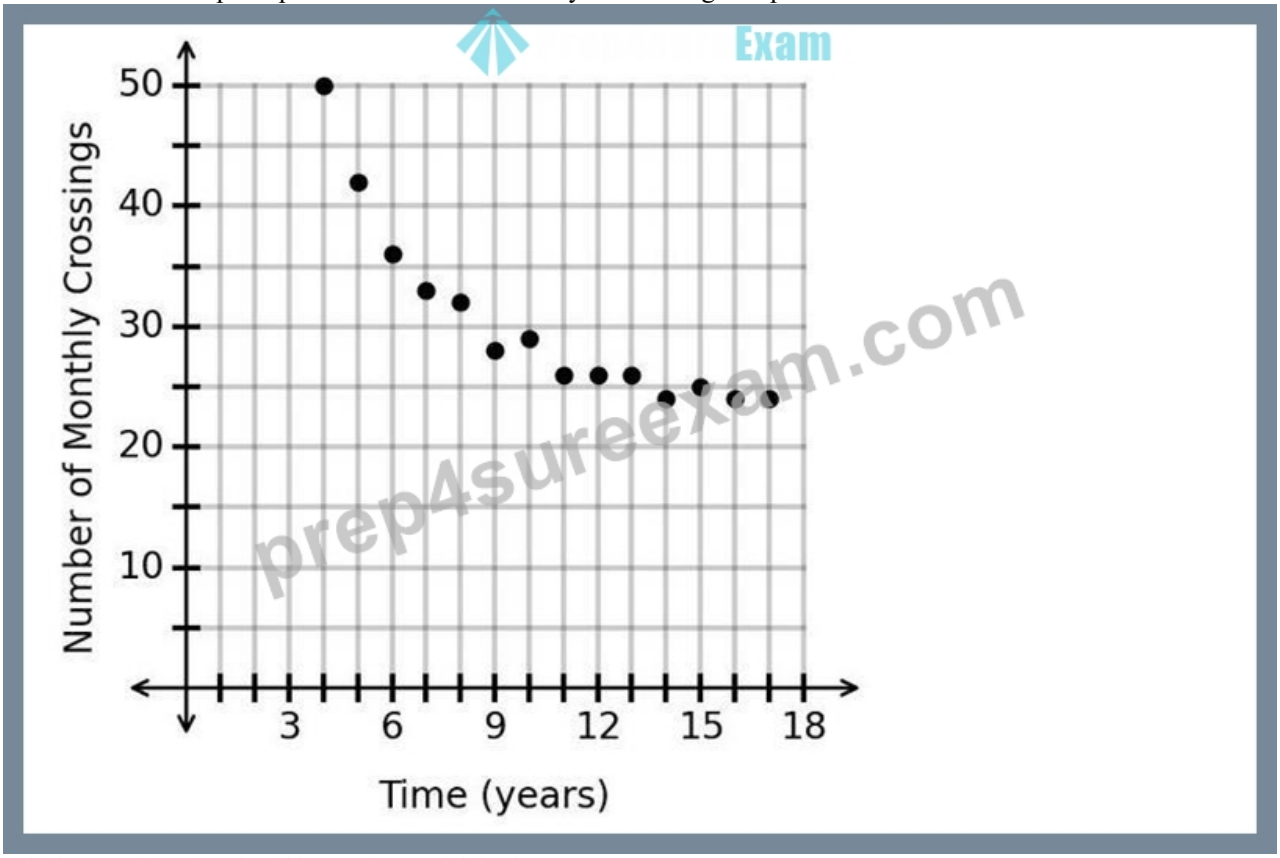
WGU Applied Algebra FXO2 PFXP C957 Sample Questions (Q55-Q60):

NEW QUESTION # 55
The data in the scatterplot represents the number of monthly train crossings at a particular intersection over time.



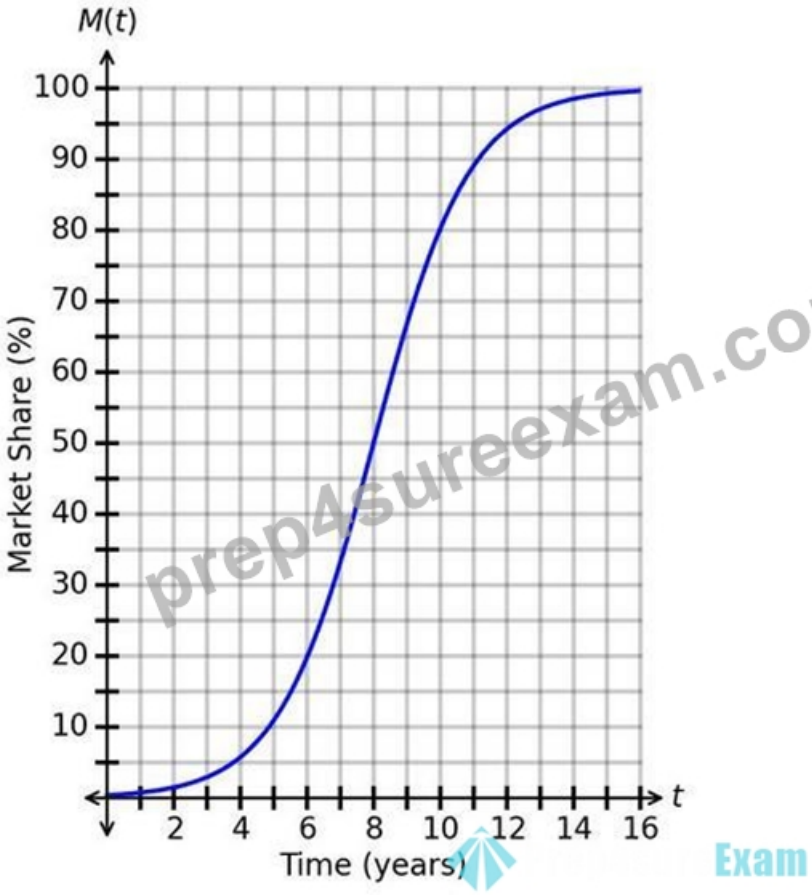
Which type of function should be used to model the data?

- A. Logistic
- B. Polynomial
- C. Linear
- D. Exponential

Answer: D

Explanation:
The scatterplot shows a decreasing pattern.
At first, the number of monthly crossings decreases quickly. Then the values begin to level off.
This type of pattern is characteristic of an exponential decay model.
A linear model would show points decreasing at a constant rate, forming an approximately straight line. Here, the decrease is not constant; it is steep at first and then slows down.
A logistic model usually has an S-shaped pattern, which is not shown here.
A polynomial model may curve, but the long-term leveling behavior shown in the scatterplot is best represented by an exponential decay function.
Therefore, the correct answer is:
(" D ")

NEW QUESTION # 56
A new company just launched and is using the function M(t)to predict its market share after tyears. The graph of M(t)is shown.



When should the company expect to have a market share of 40%?

- A. After 2 years
- B. After 3 years
- C. After 7.4 years
- D. After 0.8 years

Answer: C

Explanation:
The function M(t)represents the company's market share after tyears.
The horizontal axis represents:
t= " time in years "
The vertical axis represents:
M(t)= " market share percentage "
We need to find when the market share reaches:
40%
From the graph, locate 40on the vertical axis. Then move horizontally to the blue curve and read the corresponding value on the horizontal axis.
The curve reaches 40%at approximately:
t=7.4
So the company should expect to have a market share of 40%after about:
7.4 " years "
Therefore, the correct answer is:
(" C ")

NEW QUESTION # 57
The graph shows the weekly profit in hundreds of dollars for a coffee shop. The horizontal axis represents the number of years since the coffee shop opened.

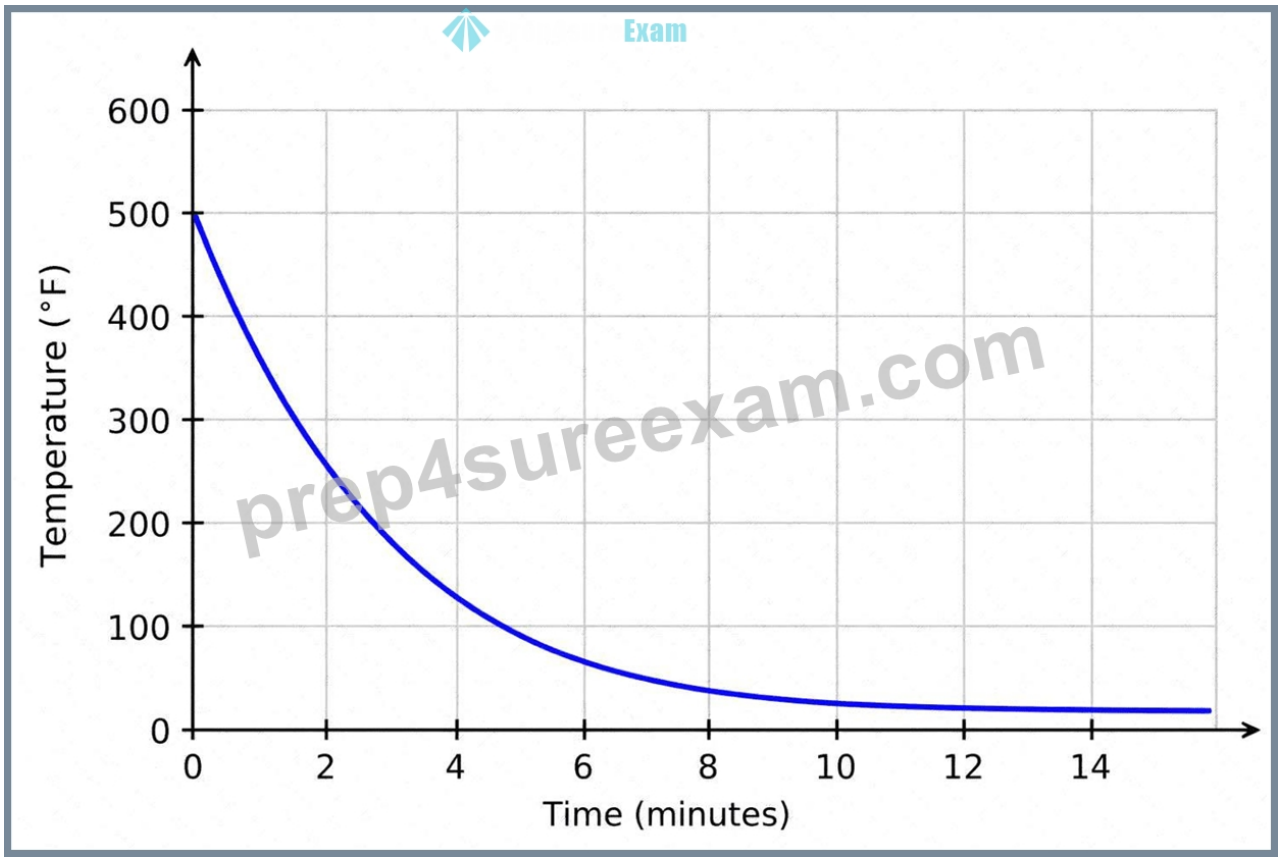
What is the correct interpretation of the minimum value?

- A. Approximately 13 years after opening, a minimum weekly profit of approximately $4,630was earned.
- B. Approximately 13 years after opening, a minimum weekly profit of approximately $990was earned.
- C. Approximately 6 years after opening, a minimum weekly profit of approximately $990was earned.
- D. Approximately 6 years after opening, a minimum weekly profit of approximately $4,630was earned.

Answer: C

Explanation:
The graph shows weekly profit as a function of time.
The horizontal axis represents:
" years since opening "
The vertical axis represents:
" weekly profit in hundreds of dollars "
The graph is an upward-opening curve, so its minimum value occurs at the lowest point, called the vertex.
From the graph, the lowest point occurs at approximately:
t=6
So the minimum weekly profit happened approximately:
6 " years after opening "
The vertical value at this point is approximately:
9.9
Since the profit is measured in hundreds of dollars:
9.9×100=990
So the minimum weekly profit was approximately:
$990
Therefore, the correct answer is:
(" A ")

NEW QUESTION # 58
The temperature of an object changes according to the relationship in the graph.



Which equation represents the horizontal asymptote of the function?

- A. x=525
- B. x=25
- C. y=25
- D. y=525

Answer: C

Explanation:
The graph shows the temperature of an object changing over time.
The horizontal axis represents:
" Time in minutes "
The vertical axis represents:
" Temperature in degrees Fahrenheit "
The curve is decreasing quickly at first and then begins to level off. This is the shape of an exponential decay function.
A horizontal asymptote is a horizontal line that the graph approaches as time increases.
Because a horizontal asymptote is a horizontal line, its equation must have the form:
y= " constant "
From the graph, the temperature approaches about:
25