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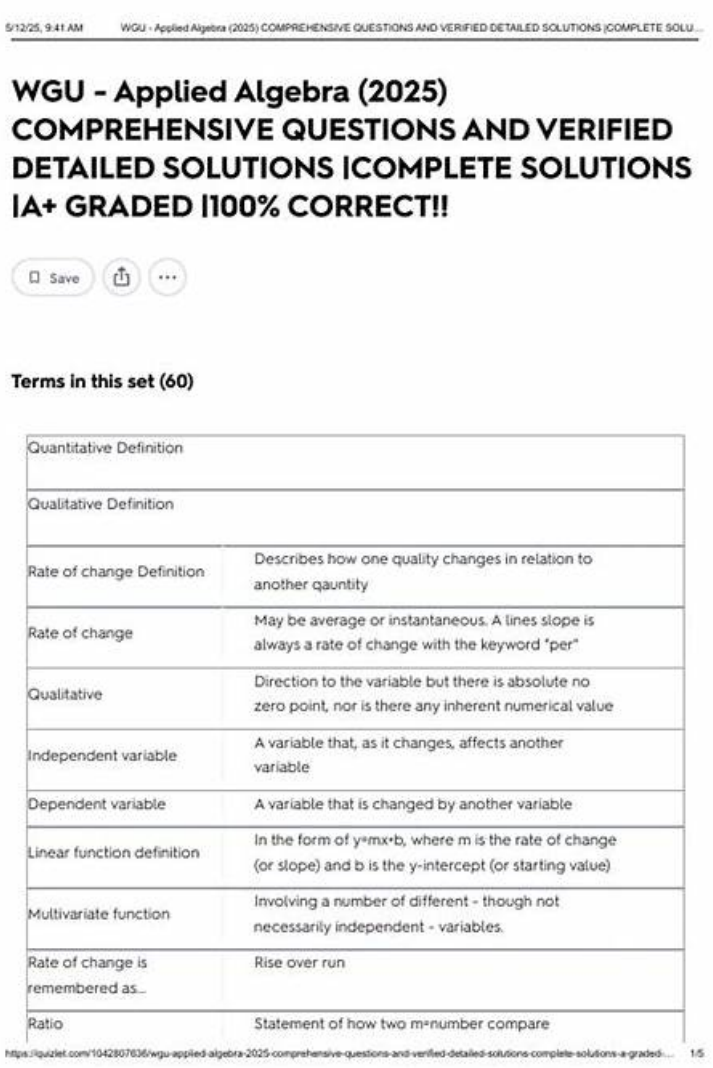

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Terms in this set (60)

Quantitative Definition	
Qualitative Definition	
Rate of change Definition	Describes how one quality changes in relation to another qauntity
Rate of change	May be average or instantaneous. A lines slope is always a rate of change with the keyword "per"
Qualitative	Direction to the variable but there is absolute no zero point, nor is there any inherent numerical value
Independent variable	A variable that, as it changes, affects another variable
Dependent variable	A variable that is changed by another variable
Linear function definition	In the form of y=mx+b, where m is the rate of change (or slope) and b is the y-intercept (or starting value)
Multivariate function	Involving a number of different - though not necessarily independent - variables.
Rate of change is remembered as...	Rise over run
Ratio	Statement of how two m=number compare

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Another version of WGU Applied Algebra FXO2 PFXP C957 (Applied-Algebra) practice exams is also available at TestkingPass and that is web-based. It has all specifications we have discussed above in the section of the WGU Applied-Algebra desktop practice test software. But the only difference is that this web-based Applied-Algebra practice exam software works online and needs no software installation. Furthermore, this Applied-Algebra Practice Exam is supported by both Windows and iOS, Android, Mac, and Linux. Since it is the web-based Applied-Algebra practice exam, you can take it from Opera, Chrome, Safari, Firefox, or any other popular browser.

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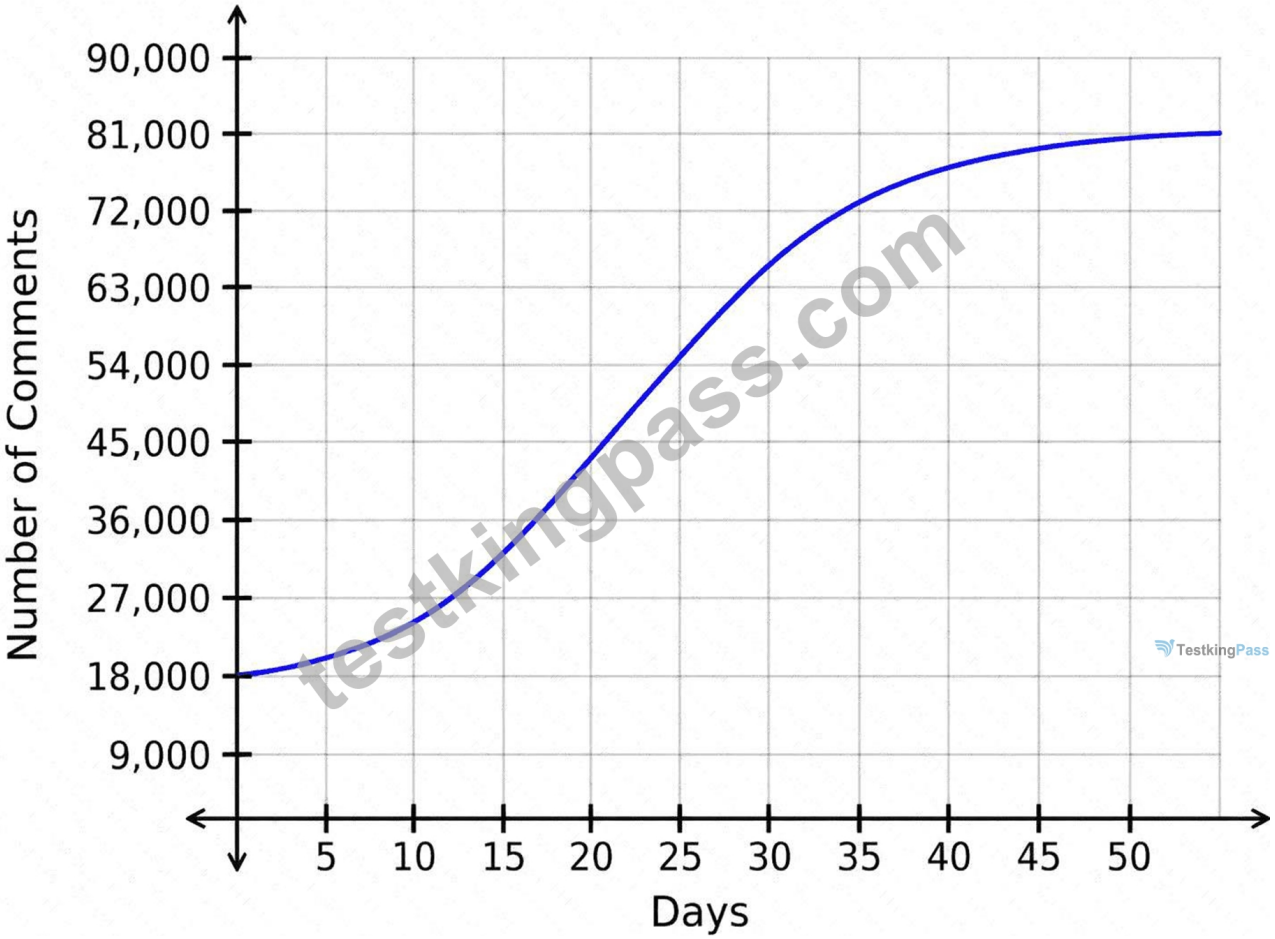
WGU Applied Algebra FXO2 PFXP C957 Sample Questions (Q44-Q49):

NEW QUESTION # 44
The number of comments on a social media post is represented by the logistic function f(x), whose graph is shown, where xrepresents the number of days since the post was created and f(x)represents the number of comments on day x.



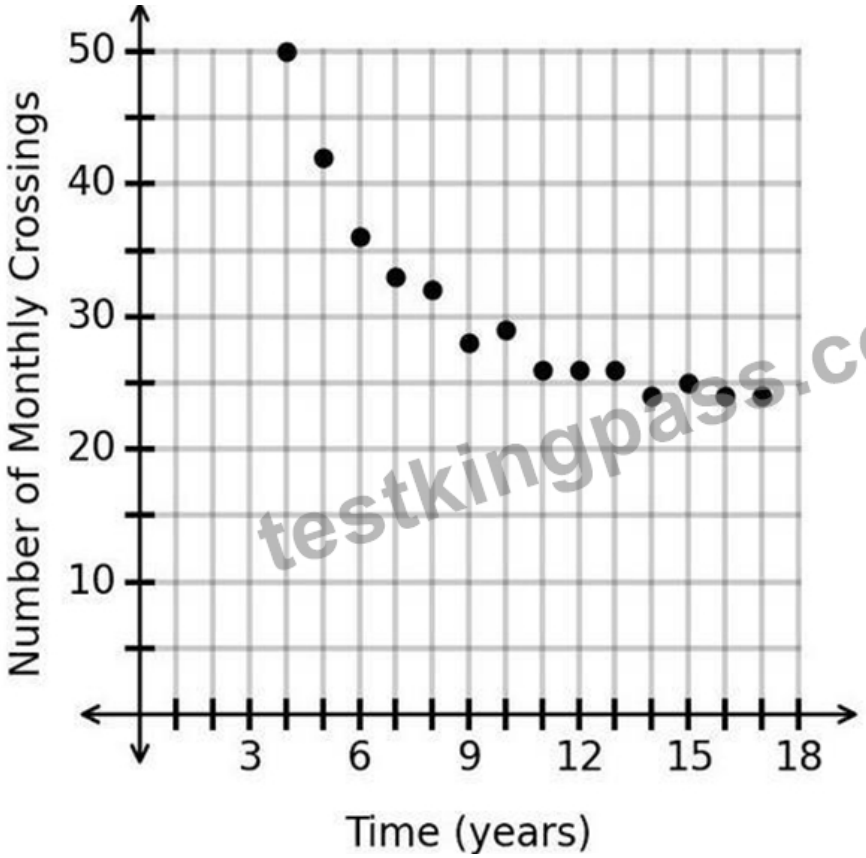
How does the number of comments change as time progresses from day 1 to day 17?

- A. The number of comments increases faster and faster.
- B. The number of comments decreases slower and slower.
- C. The number of comments increases slower and slower.
- D. The number of comments decreases faster and faster.

Answer: A

Explanation:
This graph represents a logistic growth function, which has an S-shaped curve.
Key behavior of logistic functions:
Initial phase (early time) # growth is slow
Middle phase # growth speeds up (increasing rate)
Later phase # growth slows down as it approaches a maximum
Analyze the interval from day 1 to day 17:
This interval is in the early part of the graph.
The curve is increasing and getting steeper over this range.
That means the rate of increase is growing over time.
So, the number of comments is:
" increasing faster and faster "

NEW QUESTION # 45
The data in the scatterplot represents the number of monthly train crossings at a particular intersection over time.



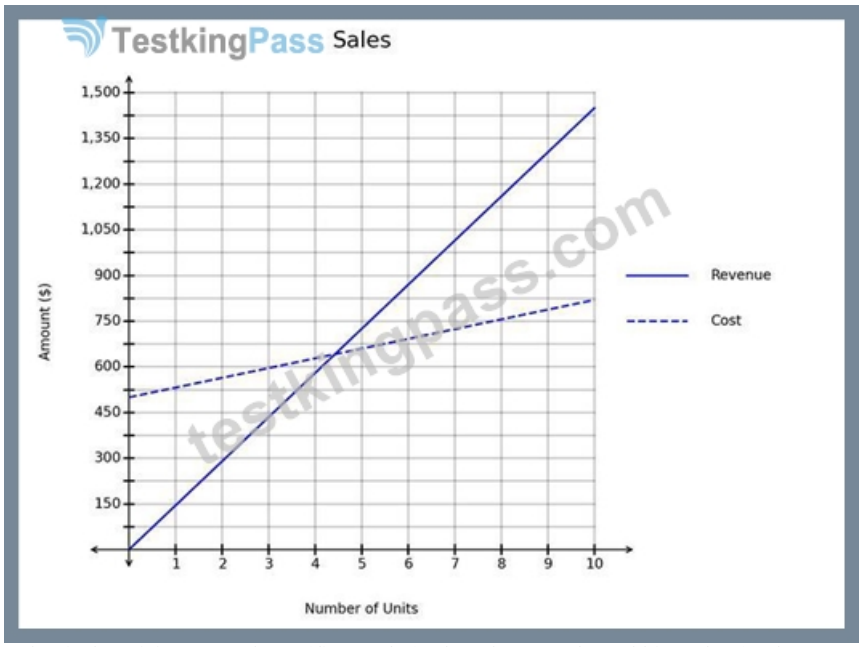
Which type of function should be used to model the data?

- A. Linear
- B. Polynomial
- C. Logistic
- 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 # 46
Through a local marketplace, a person makes livestock feeders to sell. The graph shows the functions modeling the cost and revenue.



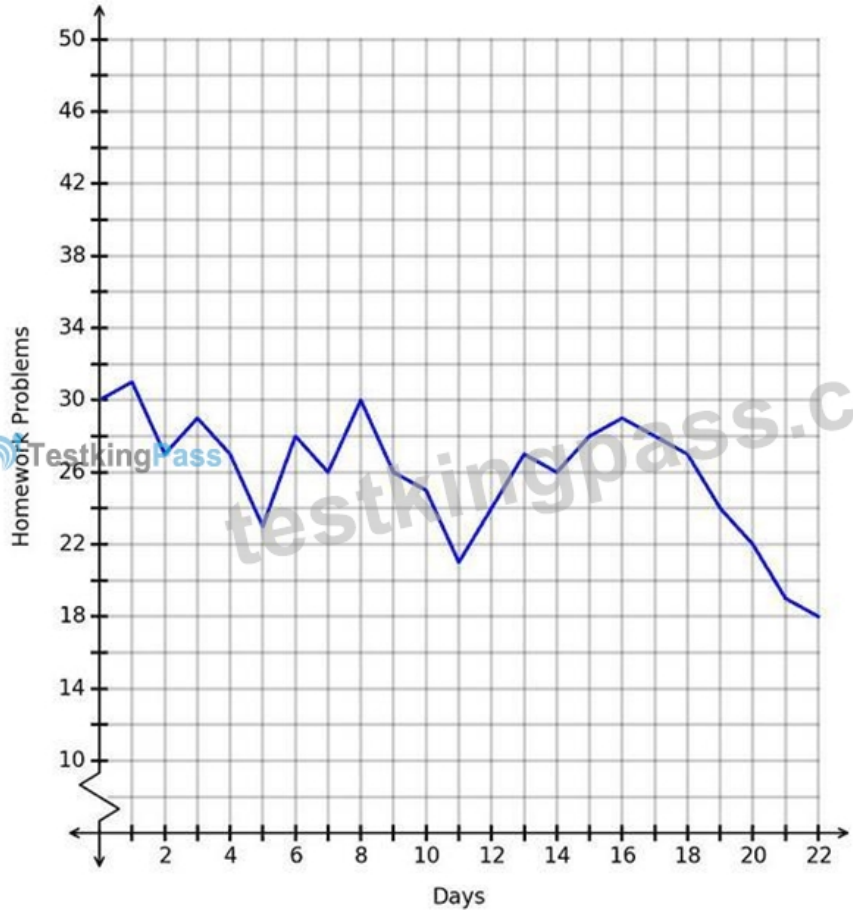
What is the minimum number of livestock feeders that must be sold in order for the revenue to cover the costs?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: B

Explanation:
This question asks for the break-even point, which is the point where:
Revenue=Cost
On the graph:
The solid blue line represents revenue.
The dashed blue line represents cost.
The revenue line starts below the cost line, meaning the person is not yet covering costs. The revenue line eventually crosses the cost line at a little more than 4 units.
Since the question asks for the minimum number of livestock feeders that must be sold, we need a whole number of feeders.
The graph shows the intersection occurs between:
4 and 5
So selling 4 feeders is not enough, but selling 5 feeders is enough for revenue to cover the costs.
Therefore, the correct answer is:
C

NEW QUESTION # 47
In the graph showing the number of daily homework problems assigned for a math class, the horizontal axis shows the number of school days since the beginning of the term and the vertical axis shows the number of daily homework problems.



Which conclusion is correct based on this graph?

- A. The maximum number of daily homework problems is 29 and occurs at day 3.
- B. The minimum number of daily homework problems is 18 and occurs at day 22.
- C. The minimum number of daily homework problems is 31 and occurs at day 1.
- D. The maximum number of daily homework problems is 21 and occurs at day 11.

Answer: B

Explanation:
This question asks us to identify a correct conclusion from the graph.
The vertical axis represents:
" number of daily homework problems "
The horizontal axis represents:
" school days since the beginning of the term "
From the graph, the lowest point occurs at the far right, around:
" day " 22
The corresponding number of homework problems is approximately:
18
So the minimum number of daily homework problems is 18, and it occurs at day 22.
Therefore, the correct answer is:
(" D ")

NEW QUESTION # 48
A vehicle is travelling away from a rest stop. The function
D(t)=48t+23
represents the distance from the vehicle to the rest stop at time t, where t is measured in hours and D is measured in miles.
What is the value of D(1.7)?

- A. 0
- B. 58.6

- C. 104.6
- D. 87.1

Answer: C

Explanation:
The function is:
D(t)=48t+23
This is a linear function because it has the form:
D(t)=mt+b
where:
48
is the rate of change, and:
23
is the starting distance from the rest stop.
We need to find:
D(1.7)
That means substitute:
t=1.7
into the function.
D(1.7)=48(1.7)+23
First multiply:
48(1.7)=81.6
Now add 23:
D(1.7)=81.6+23
D(1.7)=104.6
So the vehicle is:
104.6 miles
from the rest stop after 1.7 hours.

NEW QUESTION # 49
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