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Which choice is a variable?

- A. The number of states in the United States of America
- B. The cost of your daily newspaper
- C. The amount a teenager makes babysitting
- D. Your shoe size - **Correct-answer-C**

A company uses the function B to predict the cost of benefits given the number of employees, n .

What might the inverse function be useful for?

- A. The inverse function could be used to figure out how many employees the company could employ if the budget for benefits was limited.

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WGU Applied-Algebra Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Systems of Equations and Inequalities	15%	- Graphical solutions - Solving by substitution and elimination - Applications of systems
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Topic 3: Exponents, Radicals, and Quadratic Relationships	15%	- Basic quadratic graphs - Properties of exponents - Solving quadratic equations - Simplifying radical expressions
Topic 4: Linear Equations and Inequalities	25%	- Real-world applications - Solving and graphing inequalities - Solving single-variable equations
Topic 5: Graphing and Functions	25%	- Linear functions and their graphs - Coordinate plane and plotting points - Function notation and evaluation - Slope and equations of lines

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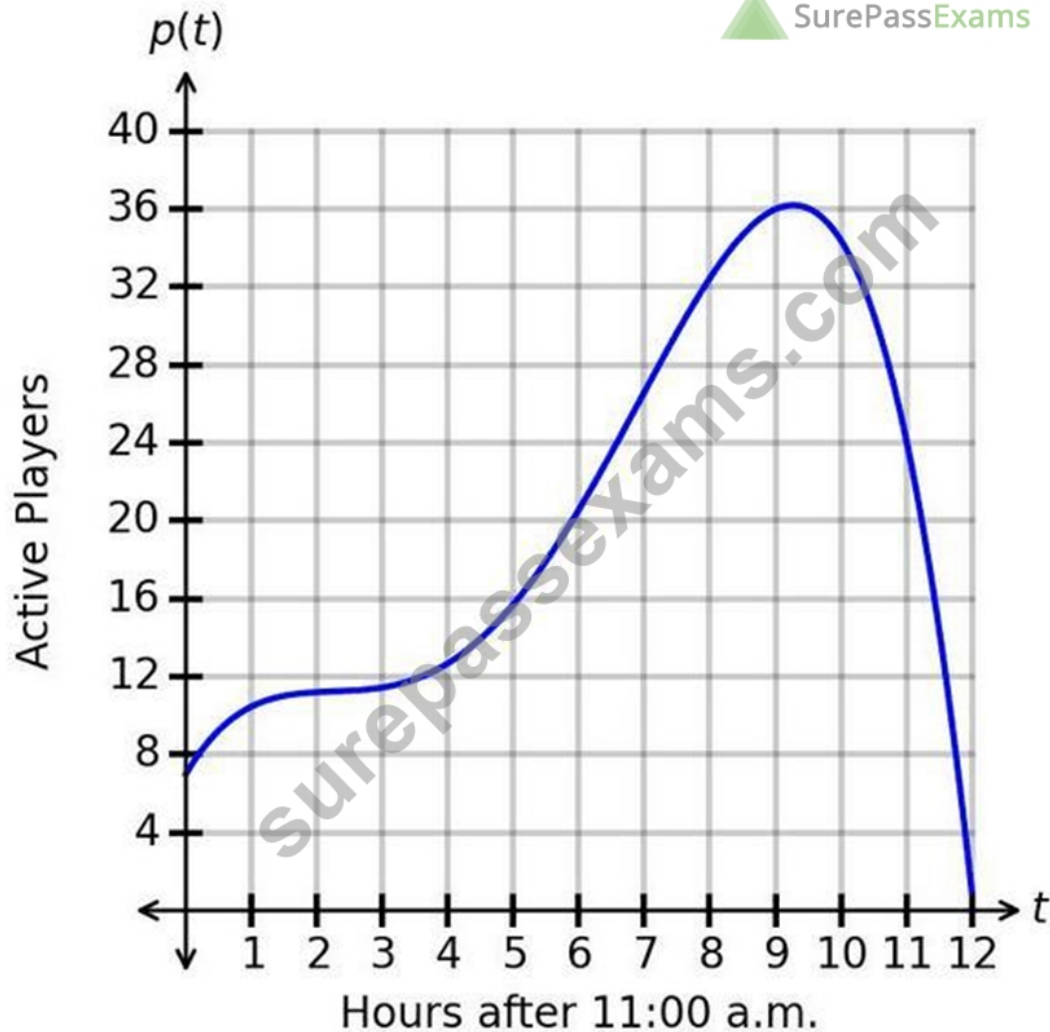
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WGU Applied Algebra FXO2 PFXP C957 Sample Questions (Q82-Q87):

NEW QUESTION # 82

The function $p(t)$ represents the number of active players, p , in a game t hours after 11:00 a.m. The graph of $p(t)$ is shown.



What is one example of an interval for which the number of players is decreasing faster and faster?

- A. $t=1.2$ to $t=5.3$
- B. $t=8.7$ to $t=10.7$
- C. $t=8.6$ to $t=9.0$
- D. $t=11.2$ to $t=11.5$

Answer: D

Explanation:

The graph represents:

$p(t)$ = "number of active players"

where:

t = "hours after 11:00 a.m."

The phrase "decreasing faster and faster" means two things are happening:

The graph is going downward, so the number of players is decreasing.

The graph is becoming steeper downward, so the rate of decrease is increasing.

This corresponds to a graph that is decreasing and concave down.

Looking at the graph, the number of active players reaches a maximum around:

$t \approx 9$

After that, the graph begins decreasing. Near the far right side of the graph, especially around:

$t=11.2$ to $t=11.5$

the curve is dropping more and more steeply.

That means the number of players is decreasing faster and faster on that interval.

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. 104.6
- B. 87.1
- C. 0
- D. 58.6

Answer: A

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:

$$D(1.7)=81.6+23$$

$$D(1.7)=104.6$$

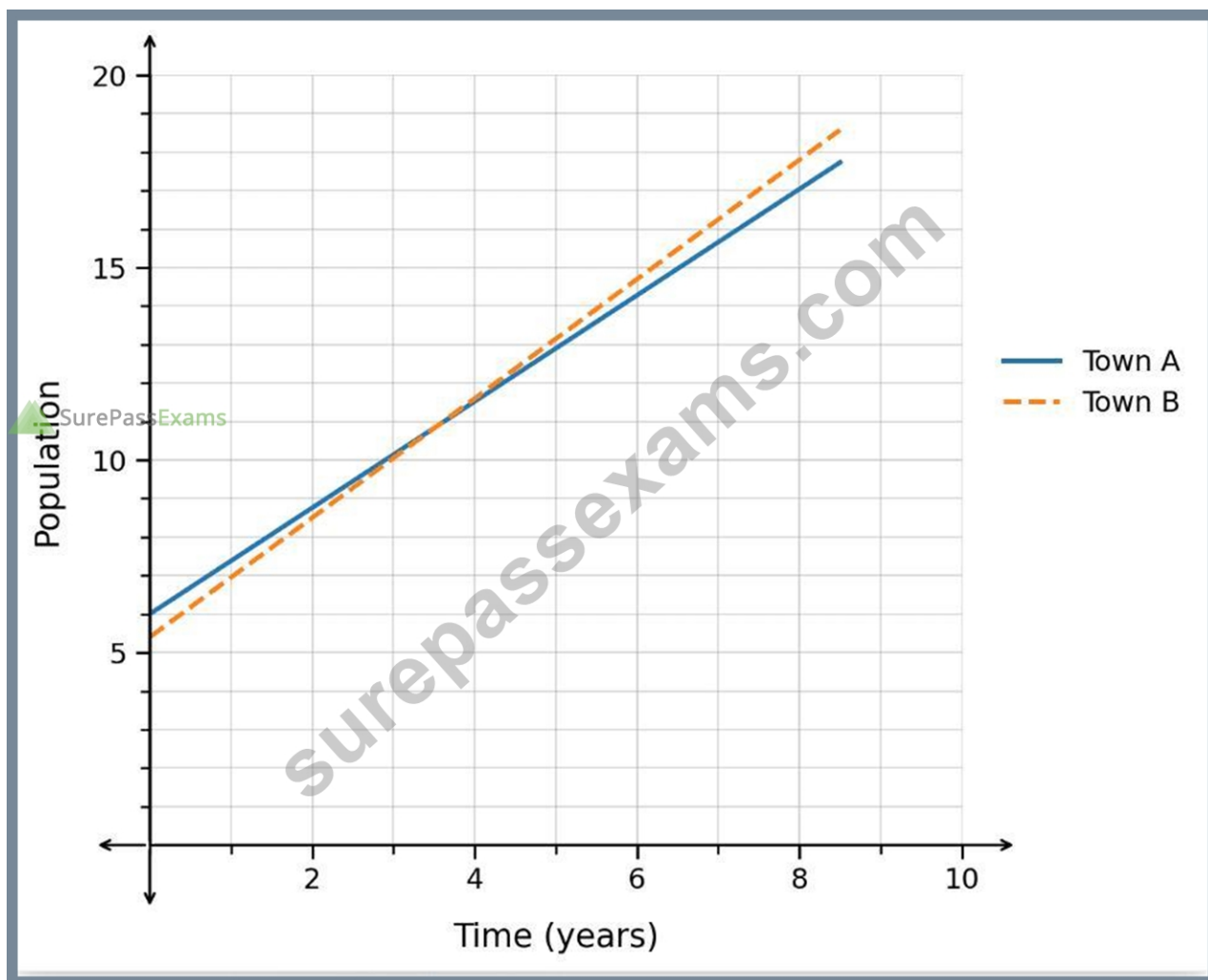
So the vehicle is:

104.6 miles

from the rest stop after 1.7 hours.

NEW QUESTION # 84

The populations, in thousands, of two towns are shown in the graph, where the horizontal axis measures the time in years.



Which town's population is growing at a faster rate?

- A. Town B, because $1.3 > 1.1$
- B. Town A, because $1.3 > 1.1$
- C. Town B, because $6.5 > 5.5$
- D. Town A, because $6.5 > 5.5$

Answer: A

Explanation:

To determine which town's population is growing faster, compare the slopes of the two lines. In a linear population model, the slope represents the growth rate, while the starting value represents the initial population. The graph shows that Town A and Town B both increase over time, but Town B has the larger slope. Town B grows at about 1.3 thousand people per year, while Town A grows at about 1.1 thousand people per year. Since $1.3 > 1.1$, Town B's population is increasing at a faster rate. The values 6.5 and 5.5 describe starting population amounts, not growth rates. Therefore, the correct answer is A.

NEW QUESTION # 85

Based on collected data, the value of a painting can be modeled using the exponential function $f(x) = 240(1.12)^x$. In this case, x represents the number of years since 2005, and $f(x)$ represents the value of the painting in dollars. Which value represents the average yearly rate of change of the painting's value from 2013 to 2015?

- A. 74.42
- B. 669.82
- C. 75.59
- D. 151.17

Answer: C

Explanation:

This problem asks for an average yearly rate of change over a time interval. Since x represents years since 2005, the year 2013 corresponds to $x=8$, and the year 2015 corresponds to $x=10$. Use the average rate of change formula:

$\frac{f(10)-f(8)}{10-8}$

$\frac{f(10)-f(8)}{10-8}$

Evaluating the model gives $\frac{f(10)-f(8)}{10-8} = \frac{240(1.12)^{10}-240(1.12)^8}{2}$

$\approx \frac{594.23-240}{2}$

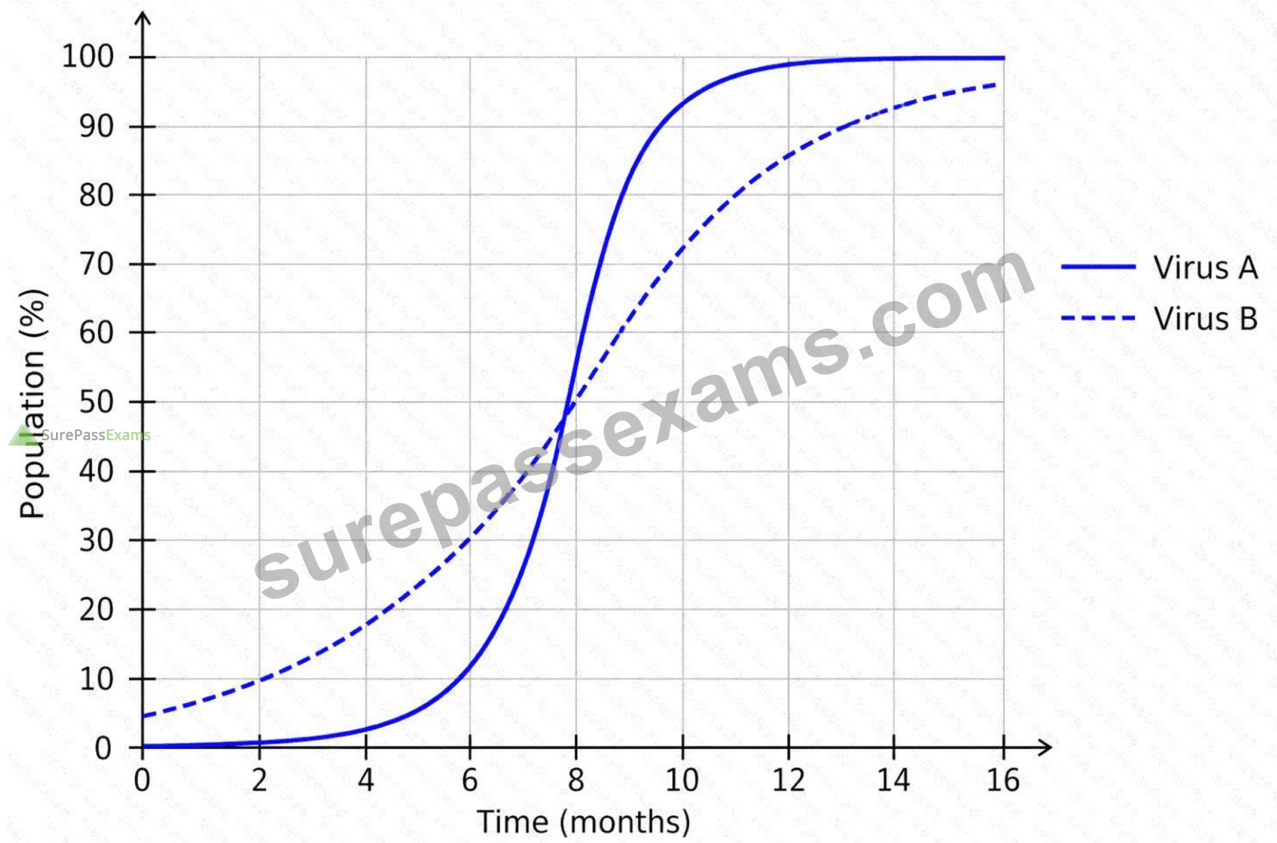
$\approx \frac{354.23}{2} \approx 177.115$

≈ 177.12

177.12. The total change is approximately 151.17 dollars over 2 years. Dividing by 2 gives about 75.59 dollars per year. Since the question asks for the average yearly rate, not the total increase, the correct answer is B.

NEW QUESTION # 86

The spread of two viruses within a single population is modeled using the functions in the graph.



What is a correct conclusion based on the graph?

- A. Virus B affects 20% of the population before virus A does.
- B. Virus B affects 70% of the population before virus A does.
- C. Virus B affects 80% of the population before virus A does.
- D. Virus B affects 60% of the population before virus A does.

Answer: A

Explanation:

The graph compares the spread of two viruses over time.

The horizontal axis represents:

t = "time in months"

The vertical axis represents:

"percentage of the population affected"

The graph shows:

Virus A as the solid blue curve.

Virus B as the dashed blue curve.

To determine which statement is correct, we compare when each virus reaches the same population percentage.

At 20%:

Virus B reaches 20% earlier, around t=5 months.

Virus A reaches 20% later, around t=6.5 months.

So Virus B affects 20% of the population before Virus A does.

For higher percentages such as 60%, 70%, and 80%, Virus A rises more quickly after about 50%, so Virus A reaches those percentages before Virus B.

Therefore, the correct conclusion is:

"Virus B affects "20% " of the population before virus A does. "

NEW QUESTION # 87

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