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WGU C957 – Applied Algebra
(2026 Study Guide)
100 Practice Questions &
Answers — Multiple-Choice,
Correct Answer Marked ✓ ✓

SECTION 1 — FOUNDATIONS OF ALGEBRA (Variables, Expressions, Order of Operations)

- Which of the following is an algebraic expression?
A. 25
B. $7x - 4$ ✓ ✓
C. $19 = y$
D. (3,4)
- Evaluate: $3(5 - 2) + 4$.
A. 7
B. 9
C. 13 ✓ ✓
D. 21
- Simplify: $5x + 2x - 3$.
A. $7x - 3$ ✓ ✓
B. $5x - 1$
C. $5x + 2$
D. $3x - 7$
- What is the coefficient in the term $-8y$?
A. -1

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WGU Applied Algebra FXO2 PFXP C957 Sample Questions (Q45-Q50):

NEW QUESTION # 45

The number of members of a religious organization can be modeled using the logistic function $f(x)$, where x represents the number of years since the organization was started and $f(x)$ represents the number of members.

The graph of $f(x)$ is shown.



What is one range of values for which the graph is concave down?

- A. (6#11)
- B. (0#11)
- C. (0#6)
- D. (0#8)

Answer: A

Explanation:

The graph is a logistic growth curve.

A logistic growth curve has two main concavity regions:

"concave up before the inflection point "

and

"concave down after the inflection point "

From the graph, the function increases faster and faster until about:

$x=6$

After $x=6$, the graph continues increasing, but it begins to flatten out. That means the number of members is increasing slower and slower.

This is concave down behavior.

Therefore, one interval where the graph is concave down is:

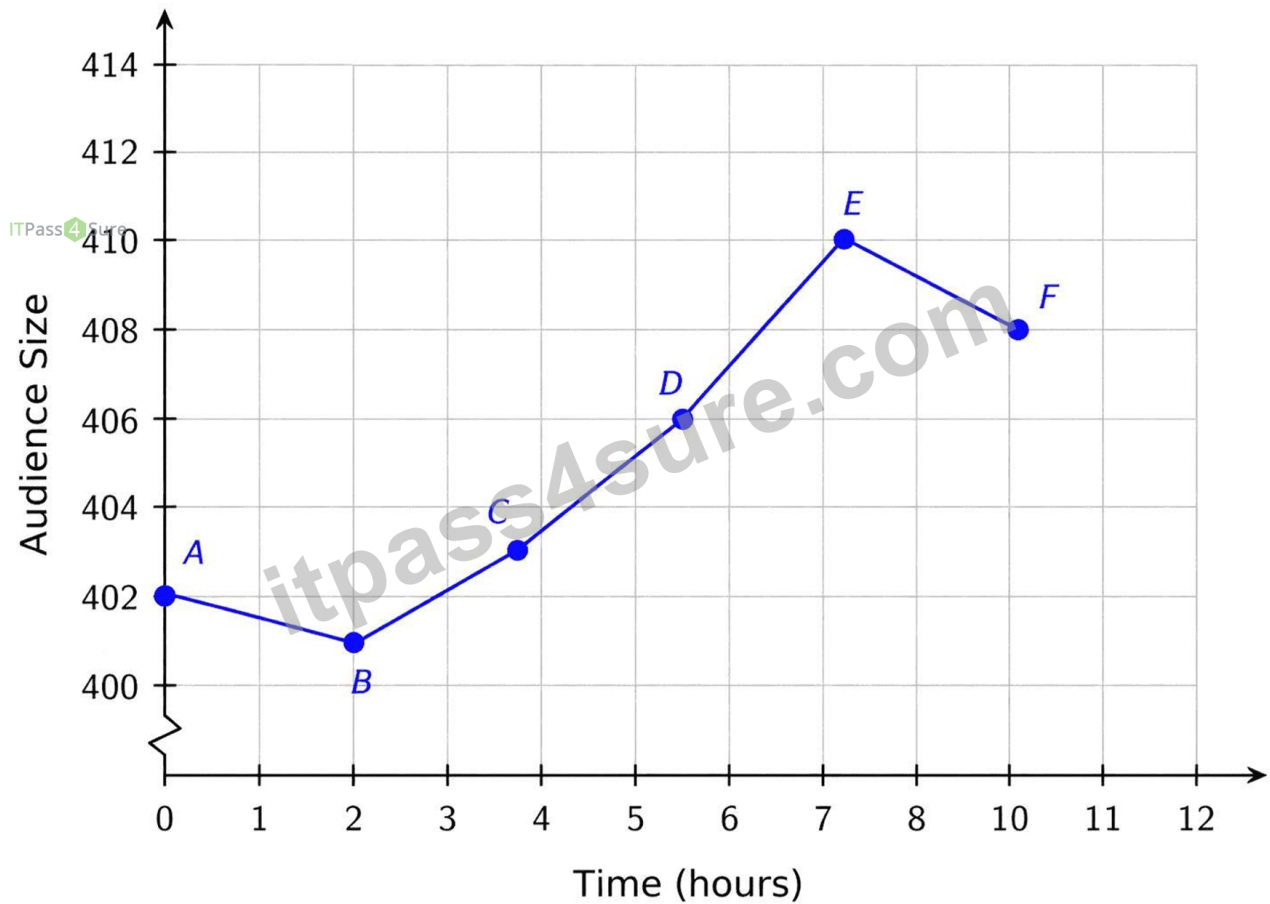
(6#11)

So the correct answer is:

("D ")

NEW QUESTION # 46

The number of people, P , in a festival audience is represented by the graph, with the number of hours since the beginning of the festival along the horizontal axis and the size of the audience along the vertical axis.



Point A represents an audience size of 402 for the first hour of the festival, or $P(0)=402$.

Which ordered pair represents a point on the graph?

- A. (4#404)
- B. (10#407)
- C. (2#401)
- D. (8#409)

Answer: C

Explanation:

This question is about reading an ordered pair from a graph.

An ordered pair has the form:

$(x\#y)$

where:

x = "time in hours "

and

y = "audience size "

From the graph:

Point A is at approximately (0#402)

Point B is at (2#401)

Point C is at (4#403)

Point D is at (6#406)

Point E is at approximately (8#410)

Point F is at (10#408)

Now compare these graph points with the answer choices.

Choice A says:

(2#401)

This matches point B on the graph exactly.

The other choices do not match the graph:

(4#404)

is incorrect because at $x=4$, the graph shows about 403, not 404.

(8#409)

is incorrect because at $x=8$, the graph is about 410, not 409.

(10#407)

is incorrect because at $x=10$, the graph shows about 408, not 407.

NEW QUESTION # 47

The function $d(x)=14+65x$ represents the distance, in meters, from a tower to an object at time x , in seconds.

What is the value of $d(1.5)$?

- A. 0
- B. 1
- C. 0.19
- D. 111.5

Answer: D

Explanation:

We are given the function:

$$d(x)=14+65x$$

This is a linear function because it has the form:

$$d(x)=mx+b$$

where 65 is the rate of change and 14 is the starting value.

We need to find:

$$d(1.5)$$

That means substitute $x=1.5$ into the function:

$$d(1.5)=14+65(1.5)$$

Now multiply:

$$65(1.5)=97.5$$

Then add:

$$d(1.5)=14+97.5$$

$$d(1.5)=111.5$$

So the distance from the tower to the object at 1.5 seconds is:

111.5 " meters "

NEW QUESTION # 48

The population of fish in a lake is changing according to the function

$$P(t)=462-35t$$

where t is the number of months since the beginning of the year and $P(t)$ is the fish population at time t .

Which interpretation of the rate of change is correct?

- A. The number of fish in the lake is decreasing at a constant rate of 462 fish per month.
- B. The number of fish in the lake is increasing at a constant rate of 462 fish per month.
- C. The number of fish in the lake is increasing at a constant rate of 35 fish per month.
- D. The number of fish in the lake is decreasing at a constant rate of 35 fish per month.

Answer: D

Explanation:

The function is:

$$P(t)=462-35t$$

This is a linear function in the form:

$$P(t)=mt+b$$

where:

m = " rate of change "

and

b = " initial value "

In this function:

$$m = -35$$

The negative sign means the fish population is decreasing.

The number 35 tells us the amount of decrease per month.

So the fish population is decreasing by:

35 " fish per month "

The value 462 is not the rate of change. It represents the starting fish population at the beginning of the year, when $t=0$:

$$P(0) = 462$$

Therefore, the correct interpretation is:

"The number of fish in the lake is decreasing at a constant rate of 35 fish per month. " So the correct answer is:

("D ")

NEW QUESTION # 49

The graph shows the estimated wait time, in minutes, based on the number of hours after 7:00 a.m.

What is the average rate of change of the wait time from point A to point B?

- A. 11.04
- B. 77.25
- C. -23.3
- D. -5.83

Answer: D

Explanation:

The average rate of change tells us how much the output changes, on average, for each 1-unit increase in the input.

Here:

$x =$ " hours after 7:00 a.m. "

and

$y =$ " estimated wait time in minutes "

From the graph, point A is approximately:

$$A = (5, 88.3)$$

and point B is approximately:

$$B = (9, 65)$$

Now use the average rate of change formula:

$$\text{" Average rate of change " } = \frac{(y_2 - y_1)}{(x_2 - x_1)}$$

Substitute the values:

$$\frac{(65 - 88.3)}{(9 - 5)}$$

$$= \frac{-23.3}{4}$$

$$= -5.825$$

Rounded to two decimal places:

$$-5.83$$

The negative sign means the estimated wait time is decreasing from point A to point B.

So the average rate of change is approximately:

-5.83 " minutes per hour "

NEW QUESTION # 50

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