Rate of Change & Initial Value · 1

The total cost in dollars changes at a constant rate. After 3 months it is 119, and after 6 months it is 167. What is the rate of change per month?

Rate of Change & Initial Value · 2

The water left in liters changes at a constant rate. After 1 minute it is 582, and after 5 minutes it is 510. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 3

A tank holds 599 liters of water and drains 27 liters every minute. Write an equation for y, the water left in liters, after x minutes.

Rate of Change & Initial Value · 4

The fare in dollars changes at a constant rate. After 1 mile it is 9, and after 4 miles it is 24. Write an equation for y, the fare in dollars, after x miles.

Rate of Change & Initial Value · 5

The battery level in percent changes at a constant rate. After 1 hour it is 94, and after 5 hours it is 82. What is the rate of change per hour?

Rate of Change & Initial Value · 6

The fare in dollars changes at a constant rate. After 2 miles it is 15, and after 4 miles it is 23. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 7

The charge in dollars changes at a constant rate. After 4 hours it is 256, and after 7 hours it is 358. What is the rate of change per hour?

Rate of Change & Initial Value · 8

The fare in dollars changes at a constant rate. After 4 miles it is 21, and after 8 miles it is 37. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 2

ANSWER

600

Rate of Change & Initial Value · 1

ANSWER

16

Rate of Change & Initial Value · 4

ANSWER

y = 5x + 4

Rate of Change & Initial Value · 3

ANSWER

y = -27x + 599

Rate of Change & Initial Value · 6

ANSWER

7

Rate of Change & Initial Value · 5

ANSWER

-3

Rate of Change & Initial Value · 8

ANSWER

5

Rate of Change & Initial Value · 7

ANSWER

34

Rate of Change & Initial Value · 9

A phone battery is at 93% and loses 7% every hour. Write an equation for y, the battery level in percent, after x hours.

Rate of Change & Initial Value · 10

The battery level in percent changes at a constant rate. After 4 hours it is 57, and after 7 hours it is 27. Write an equation for y, the battery level in percent, after x hours.

Rate of Change & Initial Value · 11

The height of the candle in cm changes at a constant rate. After 3 hours it is 24, and after 7 hours it is 8. What is the rate of change per hour?

Rate of Change & Initial Value · 12

The amount he has saved in dollars changes at a constant rate. After 2 weeks it is 98, and after 5 weeks it is 161. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 13

The height of the candle in cm changes at a constant rate. After 4 hours it is 27, and after 6 hours it is 23. What is the rate of change per hour?

Rate of Change & Initial Value · 14

The height of the candle in cm changes at a constant rate. After 2 hours it is 23, and after 6 hours it is 11. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 15

Sam has $26 saved and adds $25 every week. Write an equation for y, the amount he has saved in dollars, after x weeks.

Rate of Change & Initial Value · 16

The fare in dollars changes at a constant rate. After 1 mile it is 8, and after 4 miles it is 20. Write an equation for y, the fare in dollars, after x miles.

Rate of Change & Initial Value · 10

ANSWER

$y = -10x + 97$

Rate of Change & Initial Value · 9

ANSWER

$y = -7x + 93$

Rate of Change & Initial Value · 12

ANSWER

56

Rate of Change & Initial Value · 11

ANSWER

-4

Rate of Change & Initial Value · 14

ANSWER

29

Rate of Change & Initial Value · 13

ANSWER

-2

Rate of Change & Initial Value · 16

ANSWER

$y = 4x + 4$

Rate of Change & Initial Value · 15

ANSWER

$y = 25x + 26$

Rate of Change & Initial Value · 17

The amount he has saved in dollars changes at a constant rate. After 4 weeks it is 155, and after 6 weeks it is 193. What is the rate of change per week?

Rate of Change & Initial Value · 18

The fare in dollars changes at a constant rate. After 3 miles it is 14, and after 7 miles it is 22. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 19

The total cost in dollars changes at a constant rate. After 3 months it is 120, and after 6 months it is 186. What is the rate of change per month?

Rate of Change & Initial Value · 20

The height of the candle in cm changes at a constant rate. After 1 hour it is 36, and after 4 hours it is 33. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 21

A gym charges a $54 sign-up fee plus $23 per month. Write an equation for y, the total cost in dollars, after x months.

Rate of Change & Initial Value · 22

The charge in dollars changes at a constant rate. After 1 hour it is 125, and after 4 hours it is 218. Write an equation for y, the charge in dollars, after x hours.

Rate of Change & Initial Value · 23

The water left in liters changes at a constant rate. After 2 minutes it is 480, and after 5 minutes it is 459. What is the rate of change per minute?

Rate of Change & Initial Value · 24

The water left in liters changes at a constant rate. After 4 minutes it is 181, and after 7 minutes it is 91. What is the initial value (when x = 0)?

Rate of Change & Initial Value · 18

ANSWER

8

Rate of Change & Initial Value · 17

ANSWER

19

Rate of Change & Initial Value · 20

ANSWER

37

Rate of Change & Initial Value · 19

ANSWER

22

Rate of Change & Initial Value · 22

ANSWER

y = 31x + 94

Rate of Change & Initial Value · 21

ANSWER

y = 23x + 54

Rate of Change & Initial Value · 24

ANSWER

301

Rate of Change & Initial Value · 23

ANSWER

-7