

The rate constant for this first-order reaction is 0.460 s^{-1} at $400 \text{ }^\circ\text{C}$. A ? products How long, in seconds, would it take for the concentration of A to decrease from 0.680 M to 0.370 M ?

Answer:

1.32 seconds would take for the concentration of A to decrease from 0.680 M to 0.370 M .

Explanation:

Using integrated rate law for first order kinetics as:

Where,

is the concentration at time t

is the initial concentration

Given that:

The rate constant, $k = \text{s}^{-1}$

Initial concentration = 0.680 M

Final concentration = 0.370 M

Time = ?

Applying in the above equation, we get that:-

1.32 seconds would take for the concentration of A to decrease from 0.680 M to 0.370 M.

$2+4=5$ $2+5=12$ $3+6=21$ $8+11=?$

A 17-year-old college-bound student receives a vaccine against an organism that causes meningitis. This is an example of a. secondary prevention. b. disease treatment. c. tertiary prevention. d. primary prevention.

What individual is qualified to apply for the certification examination for diabetes educators? A) a diabetes patient

B) a registered nurse who works with diabetes patients

C) a family member of a diabetic patient

D) a high school student who volunteers at a diabetic clinic

Female athletes need _____ body fat to maintain normal menstrual function, which is important for maintain bone health.

A building made with a steel structure is 565 m high on a winter day when the temperature is 0°F. How much taller is the building when the temperature is 103°F? The linear expansion coefficient of steel is 1.1×10^{-5} (°C)⁻¹. Answer in units of cm.

Consider a population of birds living on an island. Suppose several individuals of the same species from a different population migrate to the island. Due to the arrival of the new birds, the allele frequencies in the original population change. What mechanism of microevolution is at work in this example?

How can water pollution be prevent?

Importance of the cell cycle

If you roll two number cubes and add the results, which is more likely, getting an even sum or getting an odd sum? Explain.

Why did Mary Jackson help the kids in the science club at Hampton's King Street Community center build their own wind tunnel?

This question has confused my entire family, and they all think that we need more information, and it isn't possible. I need help to know if it really isn't possible or none of us are understanding correctly. (For context, I'm a math one student in eighth grade, and we're reviewing equations and inequalities.) Here's the question;

The original price of Doritos is the same at both Wal-Mart and County Market. Makenzie found out that Wal-Mart had Doritos on sale at \$0.590 off per bag and bought four bags. Later that day, she found out that County Market had Doritos on sale at \$1 off per bag and bought six bags. If she paid the same amount at both stores, what was the original price of Doritos?

two students did a problem as above, but one used x for the first variable and y for the secon variable and the other student used x for the second variable and y for the first variable. how did thier answers differ and which one, if either, was incorrect?

Deadweight loss can be thought of as surplus that is transferred from producers or consumers and given to whom

Alex is selling tickets to a school play. An adult ticket costs \$6.50 and a student ticket costs \$4.00. Alex sells x adult tickets and 12 student tickets. Write a function, f(x), to represent how much money Alex collected from selling tickets

Find the midpoint of the line segment joining the points p1 and p2

P1=(3,-5);p2=(5,-1)

use the substitution method to solve the system of equations . choose the correct ordered pairs $x+y=5$ $y=7$ A.(12,7) B.(-12,7) C. (-2,7) D.(2,7)

In 1941, Japan's desire for expansion in the Pacific led to war with

How does Chesnutt describe the dialect and appearance of Mr. Ryder's wife, 'Liza Jane'? What effect does it have on the reader?

1. [Home](#)
2. [More Solution](#)