

A 25.0 mL sample of a solution of a monoprotic acid is titrated with a 0.115 M NaOH solution. The end point was obtained at about 24.8 mL. The concentration of the monoprotic acid is about mol/L. A) 25.0

B) 0.0600

C) 0.240

D) 0.120

E) None of the above

Answer:

The concentration of the acid is about 0.114 M (option E)

Explanation:

Step 1: Data given

Volume of the monoprotic acid = 25.0 mL = 0.025 L

Molarity of the monoprotic acid = ?

Molarity of the NaOH solution = 0.115 M

Volume NaOH = 24.8 mL = 0.0248 L

Step 2: Calculate the concentration

$$a * C_b * V_b = b * C_a * V_a$$

? a = the coefficient of NaOH = 1

? C_b = the molarity of the acid = TO BE DETERMINED

? V_b = the volume of the acid = 0.025 L

? b = the coefficient of the acid = monoprotic = 1

? C_a = the molarity of NaOH = 0.115 M

? V_a = the volume of NaOH = 0.0248 L

$$1 * C_b * 0.025 = 1 * 0.115 * 0.0248$$

$$0.025 C_b = 0.002852$$

$$C_b = 0.11408 \text{ M}$$

The concentration of the acid is about 0.114 M

what were the three estates in France before the revolution, and how were their tax responsibilities different? please help asap

Which civilization's writing has never been decoded?

Which statement is true about a body moving at a constant speed in a circle

What is the first step in the prewriting stage of the writing process? consider your audience and purpose choose your topic narrow your topic gather details?

What is the negative of ecotourism? A. There is no down side to ecotourism.

B. There are few checks to prove the trips are really eco-friendly.

C. Ecotourism costs a lot more money.

D. Very few people are actually participating in ecotourism.

Transportation of goods is one of the most important issues of agriculture trade, as the speed of delivery and preservation of quality are directly related. For this reason, agriculture has turned to reliable shipping methods that use the latest technological advancements to ensure safe and efficient delivery. Digital wireless sensor telemetry technology now provides senders with information on the agriculture products en route, including its destination, the speed at which it is moving, and the temperature of its environment. How does this improve the quality of agriculture product received by the consumer?

A) condition of the products

B) the progress of the delivery

C) companies don't trust their drivers

D) condition of the products and the progress of the delivery

True or false: a database transaction is recorded only when a change is written to a database.

A tub filled with 50 quarts of water empties at a rate of 2.5 quarts per minute. Let w = quarts of water left in the tub and t = time in minutes.

What would you do if you were pregnant ?

Summarize the process of “trial by water.” Where in the Code of Hammurabi is this process described?

Which of the following describes a compound - a single atom

- a particle that is smaller than an atom

- two or more types of atoms chemically bonded together

- two unrelated atoms that are not chemically bonded ?

What were Adolf Hitler’s political beliefs?

Based on the sequence of events in The Riddle of the Rosetta Stone, what is the first effect of Cairo falling to the Turkish army in the spring of 1801?

Coombs’s™ reagent is an antiserum with antibodies that bind to human _____.

Electromagnetic Spectrum Activity Worksheet Instructions: Choose three activities in your everyday life that involve electromagnetic energy, and fill in the required information below.

Electromagnetic Energy Example One

Activity: microwaving food

Type of electromagnetic energy: Radiation

Just answer description of use for this one

Description of use:

Electromagnetic Energy Example Two

Activity:

Type of electromagnetic energy:

Description of use:

Electromagnetic Energy Example Three

Activity:

Type of electromagnetic energy:

Description of use:

What are some real life examples of Mutualism.

List 3 values that would make this inequality true.

n - 3 > 10

BRAINLEST Which solids can have vertical cross sections that are circles? Check all that apply.

cones

prisms

cylinders

pyramids

spheres

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