

Instruction: Answer all the questions in both sections

## Section A

- Solve the equation  $(x + 2)(x - 7) = 0$   
A.  $x = 1$  or  $8$  B.  $x = -2$  or  $7$  C.  $x = -4$  or  $5$  D.  $-3$  or  $6$  E.  $x = -5$  or  $-2$
- The  $n$ th term of the sequence  $-1, 5, -7, 17, \dots$  is given by  
A.  $2^n$  B.  $-1 + (-2)^n$  C.  $-1 - 2^n$  D.  $1 + (-2)^n$  E.  $1 - 2^n$
- Find the  $6^{\text{th}}$  term of the G.P.  $-3, 6, -12, \dots$  A.  $-12288$  B.  $-6144$  C.  $-2048$  D.  $96$  E.  $37$
- If  $12x - 5 = 9x - \frac{7}{2}$ , find  $10x$ . A.  $-5$  B.  $-\frac{7}{2}$  C.  $\frac{7}{2}$  D.  $5$  E.  $12$
- The sum of the  $1^{\text{st}}$  and  $2^{\text{nd}}$  terms of an A.P is  $4$  and the  $10^{\text{th}}$  term is  $19$ . Find the sum of the  $5^{\text{th}}$  and the  $6^{\text{th}}$  terms. A.  $11$  B.  $20$  C.  $21$  D.  $22$  E.  $24$
- A string is  $4.8\text{m}$ . A boy measured it to be  $4.95\text{m}$ . Find the percentage error.  
A.  $\frac{5}{16}\%$  B.  $1\frac{5}{16}\%$  C.  $3\frac{1}{16}\%$  D.  $3\frac{1}{8}\%$  E.  $15\%$
- Solve  $2x - 3 \leq 5$ . A.  $x \leq 1$  B.  $x \leq 4$  C.  $x \leq 2$  D.  $x \leq 4$  E.  $x \leq 4$
- Evaluate  $\log_{15} 125$ . A.  $3$  B.  $5$  C.  $6$  D.  $8$  E.  $9$
- If  $2x + 3y = 19$  and  $8x = 11 + y$ , by how much is  $7x$  greater than  $2y$ ?  
A.  $1$  B.  $2^2$  C.  $3^2$  D.  $4^2$  E.  $5^2$
- Evaluate  $(204.7)^2 - (105.3)^2$  A.  $99.4$  B.  $308.14$  C.  $310$  D.  $3081.4$  E.  $30814$
- Simplify  $216^{\frac{1}{3}} \times 16^{\frac{-1}{2}} \times (3^{-2})^0$  A.  $24$  B.  $4$  C.  $\frac{3}{2}$  D.  $\frac{1}{4}$  E.  $\frac{1}{6}$
- Given  $\frac{y-3}{2} \leq \frac{2y-1}{3}$ , which of the following is true?  
A.  $y \leq 7$  B.  $y \leq 7$  C.  $y \leq -7$  D.  $y \leq 7$  E.  $y \geq 7$
- Simplify  $\frac{2}{a+b} - \frac{1}{a-b}$  A.  $\frac{3}{a+b}$  B.  $\frac{a-3b}{a^2-b^2}$  C.  $\frac{3a-b}{a^2-b^2}$  D.  $\frac{a-3b}{a^2+b^2}$  E.  $\frac{a-2b}{a^2-b^2}$
- A trader bought an engine for \$15,000.00 outside Nigeria. If the exchange rate is \$0.075 to N1.00, how much did the engine cost in naira?  
A. N250,000.00 B. N200,000.00 C. N150,000.00 D. N100,000.00 E. N78,000.00
- Find the  $7^{\text{th}}$  term of the sequence:  $2, 5, 10, 17, 26, \dots$  A.  $37$  B.  $48$  C.  $50$  D.  $63$  E.  $15$
- Simplify:  $(\frac{3}{4} - \frac{2}{3}) \times 1\frac{1}{2}$  A.  $\frac{1}{60}$  B.  $\frac{5}{72}$  C.  $\frac{1}{10}$  D.  $1\frac{1}{10}$  E.  $\frac{7}{30}$
- Use logarithm tables to evaluate  $\frac{6.58 \times 78.5}{3.4}$  A.  $516.5$  B.  $5165$  C.  $1519$  D.  $151.9$  E.  $15.19$
- Simplify:  $\frac{3^{n-1} \times 27^{n+1}}{81^n}$  A.  $3^{2n}$  B.  $9$  C.  $3^n$  D.  $3^{n+1}$  E.  $3$

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## *keto enol tautomeric equilibrium of acetylacetone solution confined* - Nov 22 2022

web the keto enol equilibrium constants of acac keq keto enol in various solvents confined in extended nanospaces of 200 3000 nm were examined using the area ratios of ch 3 peaks in keto to enol forms

## *measuring the equilibrium constant of a keto enol tautomerism* - Oct 02 2023

web the enol keto equilibrium constant k eq enol keto and enol are functions of temperature their values can be determined by integrating the enol and keto signal areas table 1 summarizes the equilibrium constant and percent enol concentration

values calculated for the different combinations of enol to keto ratio note that

*experiment 4 equilibrium thermodynamics of a keto enol* - May 29 2023

web the relative amounts of products and reactants at equilibrium is characterized by the equilibrium constant for this reaction  $K_{eq}$  is defined as  $\frac{[enol]_{eq}}{[keto]_{eq}}$  where the subscript eq indicates that all concentrations are measured at equilibrium

*nmr determination of keto enol equilibrium constants big* - Feb 11 2022

web because the system exists essentially completely as the thiol isomer a carbon acid acidity constant for ionization starting with the thio keto form as the initial state  $K_j$  could not be measured and a keto enol equilibrium constant  $K_{te}$  could not be determined

**nmr determination of keto enol equilibrium constants** - May 17 2022

web nmr determination of keto enol equilibrium constants chem 201 de matthews page 1 2 17 2014 chem201 nmr lab docx  
nmr determination of keto enol equilibrium constants introduction in this experiment you will use  $^1H$  nmr to determine the keto enol equilibrium composition of two diketones

**18 2 keto enol equilibria chemistry libretexts** - Mar 27 2023

web keto enol tautomerism because of the acidity of  $\alpha$  hydrogens carbonyls undergo keto enol tautomerism tautomers are rapidly interconverted constitutional isomers usually distinguished by a different bonding location for a labile hydrogen atom and a differently located double bond

measuring structural and electronic effects on keto enol equilibrium - Jun 29 2023

web jan 27 2016 several factors affect the position of keto enol equilibrium defined here as  $K_{enol} = \frac{[enol]}{[keto]}$  including structure steric bulk conjugation electron withdrawing donating groups resonance temperature and solvent a judiciously selected set of compounds that have a common 1 3 dicarbonyl moiety with progressively

nmr laboratory report sofiko maglakelidze nmr determination of keto - Oct 22 2022

web experimental methods detailed experimental procedure used for this experiment is given in the chem 417 laboratory manual the experiment 1 nmr determination of keto enol equilibrium constant each student prepared 4 tubes with sample solutions and two nmr tubes with solvent only one with deuterated chloroform and one with the methanol

determination of keto enol equilibrium constants and the kinetic - Dec 24 2022

web abstract the keto enol equilibrium constants of acetylacetone ethyl acetoacetate and ethyl benzoylacetate in water at 25  $^{\circ}C$  are determined by studying the influence of surfactants on their uv vis spectra following the method applied to benzoylacetone published recently

*determination of solvent effects on keto enol equilibria of 1 3* - Aug 20 2022

web nov 1 2007 the use of proton nmr to determine the equilibrium position of tautomeric 1 3 dicarbonyl compounds in various solvents has been a classic physical chemistry experiment we are presenting an expansion of the excellent description of this experiment by garland shoemaker and nibler

determination of keto enol equilibrium constants academia edu - Apr 27 2023

web using nmr spectroscopy the equilibrium values for different ketones which undergo tautomerization were found by determining relative peak values for each species the value for acetylacetone was found to be  $k_c = 6.622$  and for ethyl acetoacetate was  $k_c = 7.510$

**solved nmr determination of keto enol equilibrium constants** - Jul 19 2022

web nmr determination of keto enol equilibrium constants the nmr spectrum below is for a acetylacetone with  $cdcl_3$  as solvent the photos depict the complete nmr spectrum as well more zoomed in areas of each peak demonstrate how to calculate the equilibrium constant for keto to enol conversion  $k_c$